

ANNUAL REPORT  
OF THE  
MASSACHUSETTS COMMISSION  
ON MENTAL DISEASES  
—  
1919





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FOURTH ANNUAL REPORT  
OF THE  
MASSACHUSETTS COMMISSION ON  
MENTAL DISEASES

OF  
THE COMMONWEALTH OF MASSACHUSETTS

FOR THE  
YEAR ENDING NOVEMBER 30, 1919



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# MEMBERS OF THE MASSACHUSETTS COMMISSION ON MENTAL DISEASES.

Nov. 30, 1919.

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GEORGE M. KLINE, M.D., <i>Director</i> ,	. . . . .	BEVERLY.
JOHN B. TIVNAN,	. . . . .	SALEM.
HENRY M. POLLOCK, M.D.,	. . . . .	BOSTON.
CHAS. G. DEWEY, M.D.,	. . . . .	BOSTON.
ELMER A. STEVENS,	. . . . .	SOMERVILLE.

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## OFFICERS.

LOWELL F. WENTWORTH, M.D., <i>Assistant Director.</i>	HARLAN L. PAINE, M.D., <i>Assistant to Director.</i>
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NELLIE F. BALL, <i>Statistician.</i>	ALICE M. BROWN, <i>Senior Stenographer.</i>
CLARA L. FITCH, <i>Senior Clerk.</i>	ELIZABETH F. DINSMORE, <i>Clerk.</i>
M. LOUISE SMALL, <i>Clerk.</i>	SARA J. GREENE, <i>Clerk.</i>
EMILY L. PRIDE, <i>Clerk.</i>	

ELMER E. SOUTHARD, M.D., *Pathologist; Director, Massachusetts State Psychiatric Institute.*

MYRTELLE M. CANAVAN, M.D., *Assistant Pathologist.*

OSCAR J. RAEDER, M.D., *Senior Assistant Physician.*

HARRY C. SOLOMON, M.D., *Assistant Physician.*

LILLIAN D. RIDER, *Stenographer.*

ELLEN R. SCOTT, *Laboratory Assistant.*

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ELWIN H. FORRISTALL, *Investigator of Farm Problems.*

HAROLD K. WILDER, *Chemist.*

FRANCIS B. GARDNER, *Chief Examiner, Legal Settlement and Support Claims.*

PAUL A. GREEN, *Examiner, Legal Settlement and Support Claims.*

FREDERICK R. HOUGHTON, *Examiner, Legal Settlement and Support Claims.*

MAUDE F. FREETHY, *Examiner, Legal Settlement and Support Claims.*

MARY L. BALLOU, *Senior Clerk.*

FRANCES C. O'CONNOR, *Clerk.*

MARY T. PEDRAZZI, *Clerk.*

HANNAH CURTIS, *Director of Social Service.*

MABEL G. GRAGG, *Social Worker, Department of Family Care.*

*Transportation Attendants.*

FRED A. HEWEY.

CLAIRE T. MCINNERNEY.

HYMAN W. BARRON, *Junior Clerk.*



# The Commonwealth of Massachusetts

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STATE HOUSE, BOSTON, July 6, 1920.

*To His Excellency the Governor and the Honorable Council.*

The undersigned, members of the Massachusetts Commission on Mental Diseases, respectfully submit the fourth annual report of the Commission for the year ending Nov. 30, 1919. The matters, however, relating to general statistics cover the year ending September 30.

GEORGE M. KLINE.  
JOHN B. TIVNAN.  
HENRY M. POLLOCK.  
CHAS. G. DEWEY.  
ELMER A. STEVENS.





# The Commonwealth of Massachusetts

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## REPORT OF THE MASSACHUSETTS COMMISSION ON MENTAL DISEASES.

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### REORGANIZATION.

In accordance with chapter 350 of the General Acts of 1919 the Massachusetts Commission on Mental Diseases becomes the Department of Mental Diseases on Dec. 1, 1919. The Constitutional Convention at sessions during the summers of 1917 and 1918 proposed nineteen amendments to the Constitution which at a later State election were accepted. The last amendment adopted provided that the executive and administrative work of the Commonwealth be organized in not more than twenty departments. This required the consolidation and reorganization of over one hundred existing State departments into twenty divisions. The legislation as finally passed does not change the status of this department. Under the above act the Norfolk State Hospital, at present leased to the United States government, and formerly under the State Board of Charity, comes under the supervision of the Department of Mental Diseases.

### DUTIES OF THE DEPARTMENT.

The Department has general supervision of all public and private institutions for the insane, feeble-minded and epileptic persons, etc., and it has the right of investigation and recommendation as to any matter relating to the classes under care. Each State institution has, however, its own board of trustees appointed by the Governor and Council.

The direct powers of the Department concern the interrelations of institutions and matters which are common to them all, such as the distribution and transfer of patients,

deportations of patients to other States and countries, claims to support as State charges in institutions, etc.

The expenditure of money under special appropriations for new buildings and unusual repairs is under the control of the Department, which is required to prepare plans for new buildings and to select land to be taken for the purpose of any new or existing institutions. The Department also analyzes all requests for maintenance appropriations.

The laws regarding the insane and other classes under care will be found in chapter 504 of the Acts of 1909 and amendments thereof.

#### APPOINTMENTS.

Henry M. Pollock, M.D., was reappointed a member of the Commission on Nov. 29, 1919, for a period of four years. Dr. Pollock has been a valued member of the Commission since its organization in August, 1916. By reason of his wide experience in institutional affairs he has contributed much in determining the policies of the Department.

Dr. H. C. Solomon, who was granted a leave of absence in 1917, to enter the Federal service, returned in May and assumed charge of the Psychopathic Syphilis Clinic.

Fred F. Flanders, Ph.D., chemist, resigned in June, 1919, to accept a position as director of inspection with the National Cannery Association. Dr. Flanders was appointed in June, 1912, to take charge of the chemical laboratory established by the Department to determine and establish, so far as practicable, standard grades for the supplies used by the various institutions. The formulation of specifications is necessary to the establishing of grades, which involves the employment of mechanical determination. The chemist devotes his entire time to the analysis of samples submitted and to research work.

Mr. Harold K. Wilder, a veteran of the late war, was appointed to fill the vacancy caused by the resignation of Dr. Flanders, and will begin his service on December 1. Mr. Wilder has been a student chemist at the Rhode Island State College, and was for a time in the chemical laboratory connected with the Boston Floating Hospital.

H. O. Spalding, M.D., resigned in June as superintendent of the Westborough State Hospital, after a faithful and conscientious service of seven years, to assume the superintendency of the Wiswall Sanitarium at Wellesley.

Walter E. Lang, M.D., was named as superintendent of the Westborough State Hospital, to succeed Dr. Spalding. Dr. Lang graduated from the Hahnemann Medical College in 1910. From 1910 to 1912 he served at the Easton Sanitarium, and from 1912 to 1917 was senior assistant physician at the Homœopathic State Hospital, Allentown, Pa. He entered the Federal service in 1917 as first lieutenant, was promoted to captain and later made major in the Medical Officers' Reserve Corps. He was first sent to the training camp at Fort Oglethorpe, Georgia, and then to Hoboken, N. J., to the embarkation hospital, and later was placed in charge of the development of Greenhut Building in New York, now known as United States Debarkation Hospital No. 3.

#### SHORTAGE OF EMPLOYEES.

No improvement is noted in the shortage of labor at the institutions. With the cessation of war it was thought that this condition would be relieved, but despite marked increases in the schedule of wages the shortage continues acute, especially in the ward service. The ratio of those in the nursing service to patients is such as to cause at times considerable anxiety, and has resulted in a standard of care comparing poorly with that of pre-war times. Without an adequate number of ward employees patients cannot be kept occupied nor taken out of doors for exercise. The condition is so acute that every measure to attract desirable employees and retain them in the service should be adopted. One factor in the shortage, no doubt, is due to the high wages paid in the community as compared with that received by those in the nursing service of the State. Similar difficulty is experienced in carrying on the farm activities, thus lowering the production of food supplies.

## MASSACHUSETTS STATE PSYCHIATRIC INSTITUTE.

The Commission voted that the research laboratories heretofore established and now maintained at the Psychopathic Department of the Boston State Hospital by the Massachusetts Commission on Mental Diseases are hereby continued, and shall hereafter be known as the Massachusetts State Psychiatric Institute. Such institute shall be under the general supervision and control of the Massachusetts Commission on Mental Diseases, and shall be maintained by the Commission from appropriations obtained for the purpose.

The objects of the institute are set forth in the pathologist's report on page 34.

For the purpose of clinical studies, scientific research and instruction, the clinical facilities of the institutions under the Massachusetts Commission on Mental Diseases, including the Psychopathic Department of the Boston State Hospital, shall be placed at the disposal of the institute.

## MENTAL ABNORMALITIES.

In February, 1919, the Engineering Foundation, composed of the American Society of Civil Engineers, the American Institute of Mining and Metallurgical Engineers, the American Society of Mechanical Engineers, and the American Institute of Electrical Engineers, authorized Dr. E. E. Southard, Director of the Massachusetts State Psychiatric Institute, to make a preliminary investigation as to the part played by mental abnormalities in industry. Upon the presentation of the report in May showing satisfactory preliminary results, for which an expenditure of \$300 had been made, \$2,500 was appropriated for the research in mental hygiene of industry to be made under their general direction during the twelve months beginning June 1, 1919.

Dr. W. F. M. Goss, J. Parke Channing, E. W. Rice, Jr., and Thomas T. Read were appointed an advisory committee. The objects of this research are to develop or discover methods for adapting psychopathic individuals to usefulness in industry, and to prevent them from becoming sources of disturbance in so far as these ends may prove attainable.



## RESEARCHES.

Two investigations are being carried out under the direction of Dr. E. E. Southard, Director, Massachusetts State Psychiatric Institute, for which an appropriation was made by the United States Interdepartmental Social Hygiene Board.

The first of these researches is concerned with the changes effected in the central nervous system by the treatment of cases of neurosyphilis. This investigation involves an elaborate and final study of present methods of treatment and of the tissues, especially of the nervous system of subjects who have been treated for neurosyphilis systematically and intensively.

The Massachusetts State Psychiatric Institute possesses in its own laboratory about one hundred brains and spinal cords of subjects of neurosyphilis who have been intensively treated by various methods, — intravenously by salvarsan, arsphenamine, mercury and iodides; by spinal injections of various drugs; by intracranial and intraventricular injections, and by combinations of these methods.

This material is provided with elaborate clinical histories and records which have been collected in a readily available way. The cases have been systematically and intensively treated.

In addition to the hundred nervous systems of these systematically treated cases there are several hundred other nervous systems equally well preserved and equally provided with clinical records in untreated and partially treated cases, both of the asylum group and of the psychopathic hospital group. In addition to this autopsy material there is a large amount of cerebrospinal fluid material derived from the systematic neurosyphilis treatment investigation carried on under the Commission on Mental Diseases since 1914.

The second investigation under Dr. Southard's direction is a research on the family of the syphilitic (social and economic effects of syphilis in special relation to the family). The clinical material available to the Massachusetts State Psychiatric Institute is unique, and permits the establishment of a model plan for reaching "syphilis of the innocent" from a hitherto

socially concealed source. The established ward and out-patient services available to the Psychiatric Institute yield a large number of neurosyphilitics (paretics, tabetics and atypical forms) yearly. In this research Dr. Southard is dealing mainly with the handling of the syphilitic family for the prevention of further infection, and for the treatment of those already infected to prevent further syphilis. The social service problems involved are of extreme difficulty, and the technique is somewhat intricate, requiring rather expert scientific social workers. The information resulting from this investigation will indicate the size of the problem, its cost to the community, and the best methods of handling the situation. The information so secured could be put into a form available to all social agencies, and particularly to those working in child welfare agencies and hospitals.

#### DEFECTIVES, CRIMINALS AND MISDEMEANANTS.

The report of the special commission created by chapter 64, Resolves of 1919, to investigate and consider all matters relative to the control, custody and treatment of defective delinquents, feeble-minded persons, persons suffering from excessive use of alcohol or drugs, criminals and misdemeanants, was submitted to the General Court in 1919, and printed as House Bill No. 1403. The Commissioner of this Department, Walter E. Fernald, M.D., superintendent of the Massachusetts School for the Feeble-minded, Mr. Thomas W. White, Supervisor of Administration, Mr. Edward C. R. Bagley, Director of Prisons, Mr. Robert W. Kelso, secretary of the State Board of Charity, and Mrs. Ellen W. Gray, chairman, Advisory Board of Prisons, constituted the members of this special commission. At the first meeting of the commission Dr. Fernald was made chairman.

The fundamental conclusions derived from the commission's study are six in number:—

1. The present disintegrated and unrelated system under which criminals and misdemeanants, both juveniles and adults, are confined and cared for in our 34 penal and correctional institutions must be replaced by a unified system, under State direction, if proper classification according to age, mental con-

dition and possibilities of reformation can be expected, or treatment that is remedial and economical obtained.

2. The plant of the State Prison at Charlestown should be abandoned. The State Prison should be transferred from the site at Charlestown to the plant now occupied by the State Farm at Bridgewater, the State Farm to be transferred to the control of the Bureau of Prisons for this purpose.

3. The Norfolk State Hospital, upon its return to State use, should be retained for the custody, care and treatment of inebriates and drug addicts, taking charge of all cases falling within that group.

4. The principle of a clearing house should be adopted in our process of court commitment of all offenders by which —

(a) All adult offenders who are found guilty, and who, in the opinion of the court, should go to a penal institution, shall be committed to the custody of the Bureau of Prisons, or other State body dealing with adult offenders, instead of to the separate institutions, as at present.

(b) All juvenile offenders who are found guilty, and who, in the opinion of the court, should go to a school or institution for juvenile delinquents, shall be committed to the custody of the Trustees of Massachusetts Training Schools, or other State body dealing with juvenile offenders.

5. The defective delinquent should be identified by a process of examination in the courts, and withdrawn from the community for custodial hospital treatment in accordance with his defective condition, instead of committing him for short-term sentences, as at present, with the certainty that he will repeat his offences an indefinite number of times.

6. Present beginnings in the identification and institutional treatment of those feeble-minded persons in the community who are a menace to life and property, and are breeders of their own kind, should be extended —

(a) By mental examination, by a method approved by the Commission on Mental Diseases, of all persons detained in penal and correctional institutions.

(b) By mental examination, by a method approved by the Commission on Mental Diseases, of all minors admitted to the State Infirmary, and of all women admitted there for confinement.



(c) By mental examination, by a method approved by the Commission on Mental Diseases, of every child intellectually markedly retarded in the public schools.

(d) By a centralized system of registration of all feeble-minded, under the direction of the Commission on Mental Diseases.

(e) By the development, under the Commission on Mental Diseases, of a process of supervising feeble-minded persons in the community.

(f) By the immediate extension of the Wrentham State School to its contemplated maximum capacity of 1,800 beds.

(g) By the immediate development of the Belchertown plant to a maximum capacity of 1,800 beds.

The specific proposals for legislation which the commission recommends are as follows: —

1. An amendment to our present laws, providing for the commitment of offenders to a public body in charge of correctional institutions instead of to the institution itself.

2. An act transferring the control of the State Farm from the trustees of the State Infirmary and State Farm to the Bureau of Prisons, and transferring the State Prison from Charlestown to the land and buildings now occupied by the State Farm at Bridgewater.

3. An amendment to chapter 595, Acts of 1911, securing a clearer differentiation between the criminal features and the chancery functions of that law.

4. An act providing for the compulsory mental examination, under the direction of the Commission on Mental Diseases, in all courts of all persons found guilty, who are repeaters or who are suspected of being mentally deficient, for the purpose of carrying the defective delinquent law into effect.

5. An act providing for a central system of registration of the feeble-minded, under the direction of the Commission on Mental Diseases.

6. An act providing for the mental examination of all persons committed to penal or correctional institutions, and of all minors admitted to the State Infirmary, and of all women admitted there for confinement.



7. An act providing for the mental examination of all children of school age who are three or more years intellectually retarded, or who, in the opinion of the school authorities, are mentally defective; such examination to be made in accordance with a method approved by the Commission on Mental Diseases.

8. An act providing for physical examination of all persons convicted of sex offences, and authorizing the forcible detention of such as are found diseased, so long as their condition remains a menace to the public health. (No bill is submitted, as legislation is already proposed by others covering this head.)

#### MISCELLANEOUS.

The Legislature of 1919, chapter 74, General Acts, authorized that the Summer Street Department (Worcester) of the Grafton State Hospital be made a part of the Worcester State Hospital, to be effective Dec. 1, 1919. Aside from the fact that this separation will result in a more economical administration, opportunity is provided for the development of a psychopathic hospital at this department to serve the central portion of the State. The Summer Street Department was formerly the Worcester State Asylum, and was the first State institution established in Massachusetts. With certain changes this department will lend itself admirably to the needs of a psychopathic hospital.

The Gardner State Colony was made a "receiving" hospital for the insane by chapter 49 of the General Acts of 1919. This legislation was enacted in accordance with the Department's policy that each State institution shall serve a definite district of its own. This institution was originally opened in 1902 to care for the colony type of patients who were received by transfer from other institutions.

The enactment of legislation calling for the examination of all school children (chapter 318, General Acts of 1919) three or more years backward, and the establishment of special classes, marks a progressive step in dealing with the feeble-minded problem.

The Legislature, on June 27, 1919, ordered that a special committee — to consist of two members of the Senate and five

members of the House of Representatives — be appointed to sit during the recess of the General Court to investigate conditions prevailing at the various State institutions, with special reference to the care of patients therein and the relations existing between the said patients and the officers and employees of the institutions. Throughout the investigation and visits to institutions the Director of the Department was invited to be in attendance. The report of the committee will be made to the General Court of 1920.

Development of the new school for the feeble-minded at Belchertown has proceeded rather slowly, due to difficulties experienced in all lines of construction. Appropriations were made and contracts let for the erection of a power plant, service building, laundry, one dormitory and one custodial building.

Only a limited amount of new construction has been possible, owing to the policy to obtain bids within the amounts of the appropriations. Frequently it has been necessary to request additional sums to carry on construction deemed absolutely necessary.

Monthly conferences of the superintendents with the Director of the Department, at which administrative matters were discussed, have been held throughout the year.

#### RECOMMENDATIONS FOR LEGISLATION.

1. To amend chapter 395, Acts of 1911, as amended by chapter 174, General Acts of 1915, to extend the temporary-care period to thirty days.

2. To repeal section 44 of chapter 504 of the Acts of 1909, this section being no longer used.

3. To repeal chapter 307, Acts of 1910, the provisions of this chapter being taken care of under another statute.

4. To provide for the transfer of patients from the Norfolk State Hospital to the State Infirmary.

5. To amend chapter 595 of the Acts of 1911 relative to the commitment and care of defective delinquents.

6. Relative to a water supply for Grafton State Hospital.

## REVIEW OF THE YEAR.

ALL CLASSES UNDER CARE.<sup>1</sup>

The number and location of the classes actually in the institutions and in family care Oct. 1, 1919, were:—

LOCATION.	Insane.	Feeble-minded.	Epileptic (Sane).	Voluntary (Sane).	Inebriate.	Total.	Other Classes.
Worcester State Hospital, . . . . .	1,588	-	-	2	-	1,590	-
Taunton State Hospital, . . . . .	1,349	-	-	-	-	1,349	-
Northampton State Hospital, . . . . .	1,002	-	-	-	-	1,002	-
Danvers State Hospital, . . . . .	1,501	-	-	-	-	1,501	-
Westborough State Hospital, . . . . .	1,294	-	-	4	-	1,298	-
Boston State Hospital, . . . . .	1,735	-	-	-	-	1,735	-
Grafton State Hospital, . . . . .	1,838	-	-	-	-	1,838	-
Medfield State Hospital, . . . . .	1,554	-	-	-	-	1,554	-
Gardner State Colony, . . . . .	852	-	-	-	-	852	-
Monson State Hospital, . . . . .	260	-	662	-	-	922	-
Foxborough State Hospital, . . . . .	466	-	-	-	-	466	-
Bridgewater State Hospital, . . . . .	821	-	-	-	-	821	-
Mental wards, State Infirmary, . . . . .	698	-	-	-	-	698	-
Family care, under Commission, . . . . .	38	-	-	-	-	38	-
Massachusetts School for the Feeble-minded at Waltham, . . . . .	-	1,533	-	-	-	1,533	-
Wrentham State School, . . . . .	-	1,206	-	-	-	1,206	-
Hospital Cottages for Children, <sup>2</sup> . . . . .	-	75	-	-	-	75	21
McLean Hospital, . . . . .	210	-	-	2	-	212	-
Elm Hill Private School and Home for the Feeble-minded, . . . . .	-	41	-	-	-	41	-
Twenty-four other private institutions, . . . . .	133	43	-	18	45	239	37
Almshouses, <sup>3</sup> . . . . .	-	224	-	-	-	224	-
Total under care, <sup>4</sup> . . . . .	15,339	3,122	662	26	45	19,194	58
Viz.:—							
Public care, . . . . .	14,996	3,038	662	6	-	18,702	21
Institutions and family care under trustees, . . . . .	14,958	2,814	662	6	-	18,440	21
Family care under Commission, . . . . .	38	-	-	-	-	38	-
Almshouses, . . . . .	-	224	-	-	-	224	-
Private care, . . . . .	343	84	-	20	45	492	37
McLean Hospital, . . . . .	210	-	-	2	-	212	-
Twenty-five private institutions, . . . . .	133	84	-	18	45	280	37

<sup>1</sup> See Tables Nos. 11 and 12 for whole number under care, inclusive of patients absent on visit or escape.

<sup>2</sup> Placed again under care of Commission, April, 1918.

<sup>3</sup> Taken from reports of overseers of the poor, March, 1919.

<sup>4</sup> Includes temporary-care cases.

THE WHOLE NUMBER OF THE CLASSES

under care Oct. 1, 1919, was 19,194, being 1 such person to every 204 of the estimated population of the State. Of this number, 15,339, or 79.91 per cent, were insane; 3,122, or 16.26 per cent, feeble-minded; and 662, or 3.44 per cent, epileptic (sane). . There was a decrease for the year of 122.

The whole number of such persons under public care was 18,702; under private care, 492.

The decrease of such persons under public care for the year was 86; their average annual increase for the last five years, 366.

THE INSANE

in institutions and family care Oct. 1, 1919, numbered 15,339, being 1 insane person to every 255 of the estimated population of the State. In addition, there were 1,926 persons who were temporarily absent from institutions, and a considerable number of others in the community who had been previously discharged or had never appeared in institutions for the insane.

The insane appear under public care in public institutions and in family care, at public expense, and under private care in private institutions. Their number and increase in these locations for the year, the last five years, the last ten years and the last twenty-five years are shown as follows: —

	NUMBER OCT. 1, 1919.			INCREASE OVER PREVIOUS YEARS.					Average Increase, Five Years.	Average Increase, Ten Years.	Average Increase, Twenty-five Years.
	Males.	Females.	Totals.	1919.	1918.	1917.	1916.	1915.			
Public institutions, <sup>1</sup>	7,284	7,674	14,958	74 <sup>2</sup>	92	311	319	831	295.8	346.8	386.60
Family care under Department.	-	38	38	6 <sup>2</sup>	3 <sup>2</sup>	17 <sup>2</sup>	22 <sup>2</sup>	216 <sup>2</sup>	52.8 <sup>2</sup>	20.3 <sup>2</sup>	4.80 <sup>2</sup>
Total, public,	7,284	7,712	14,996	80 <sup>2</sup>	89	294	297	615	243.0	326.5	381.80
Private institutions,	117	226	343	5 <sup>2</sup>	-	7 <sup>2</sup>	5	9	.4	2.2	4.32
Total, public and private.	7,401	7,938	15,339	85 <sup>2</sup>	89	287	302	624	243.4	328.7	386.12

<sup>1</sup> Includes 217 patients in family care under trustees.

<sup>2</sup> Decrease.



### THE DECREASE OF THE INSANE

under care for the year was 85, compared with an increase of 89 the previous year; 243, the average annual increase for the last five years; 328, the last ten years; and 386, the last twenty-five years. For the first time there has been a decrease in the number under care, brought about, no doubt, largely by reason of industrial conditions prevailing at the present time.

The number of non-resident insane was 79, compared with 69 the previous year, and 74, the average number the last five years. All of these patients were in private institutions.

It is the policy of the State not to receive into its institutions non-residents, even as private patients, unless their friends are resident in Massachusetts and have just claims for such service.

### THE DECREASE OF THE INSANE UNDER PUBLIC CARE

was 80, compared with an increase of 89 the previous year; 243, the average annual increase for the last five years; 326, the last ten years; and 381, the last twenty-five years.

### THE INSANE UNDER PRIVATE CARE

decreased 5, compared with an average annual increase for the last five years of .4; the last ten years, 2.2; and 4.32 the last twenty-five years.

### THE DECREASE OF THE INSANE IN FAMILY CARE UNDER THE COMMISSION

was 6. The number in family care under institutions on Oct. 1, 1919, was 217, a decrease of 25.

The number under family care has continued to decrease because of the marked advance in the cost of living and the small rate of board paid. Under more normal conditions, it is hoped that the number of patients placed in family care will again show an increase.

## ALL ADMISSIONS OF MENTAL PATIENTS

from the community to public institutions and McLean Hospital were 5,410. They comprise commitments as insane, temporary-care admissions, voluntary admissions of the insane, and voluntary admissions of mental patients who were classed as sane.

Admissions as insane to public institutions and McLean Hospital, inclusive of voluntary insane and temporary-care cases, numbered 5,372.

Voluntary admissions of the insane, which are included in the above figure, were 634, compared with 670 the previous year. Public institutions received 548 such patients, and McLean Hospital 86.

Voluntary admissions of mental patients who were classed as sane were 38, compared with the same number the previous year. Public institutions received 34 such patients, and McLean Hospital 4.

## ALL VOLUNTARY ADMISSIONS

to public institutions and McLean Hospital were 672, compared with 708 the previous year, and 700, the average the last five years. Public institutions received 582 such patients, compared with 634 the previous year, and 627, the average the last five years. McLean Hospital received 90 such patients, compared with 74 the previous year, and 73, the average the last five years.

## FIRST CASES OF INSANITY

appeared in public institutions and McLean Hospital to the number of 3,816. Of all the admissions of the insane to these institutions (inclusive of insane voluntary and temporary-care patients), 71.03 per cent appeared for the first time in any institution for the insane, compared with 71.53 per cent, a two years' average. One insane person came under care for the first time from every 1,027 of the estimated population of the State.

## THE NATIVITY

of such first cases of insanity does not differ materially from the percentages of the previous year. Exclusive of 17 whose birthplaces were unknown, 2,151, or 56.62 per cent, were born in the United States, compared with 56.93 per cent the previous year, and 1,648, or 43.38 per cent, in foreign countries, compared with 43.07 per cent the previous year.

## THE PARENTAGE

also corresponds substantially with the percentages of previous years. Exclusive of 239 whose birthplaces were unknown, 1,199, or 31.59 per cent, of the parents of male patients were born in the United States, compared with 32.36 per cent the previous year, and 2,596, or 68.41 per cent, in foreign countries, compared with 67.64 per cent the previous year.

Exclusive of 179 whose birthplaces were unknown, 1,097, or 32.08 per cent, of the parents of female patients were born in the United States, compared with 32.49 per cent the previous year, and 2,322, or 67.92 per cent, in foreign countries, compared with 67.51 per cent the previous year.

## CITIZENSHIP.

Of the 3,816 first admissions as insane, 2,148, or 56.29 per cent, were citizens by birth, compared with 57.59 per cent the previous year, and 416, or 10.91 per cent, by naturalization, compared with 6 per cent the previous year. There were 1,051 aliens, or 27.54 per cent, compared with 26.40 per cent the previous year, and 201, or 5.26 per cent, where the citizenship was unascertained, compared with 10.01 per cent the previous year.

## PSYCHOSES OF FIRST ADMISSIONS

were as follows:—

PSYCHOSES.	1919.		Average, Two Previous Years (Per Cent).
	Cases.	Per Cent.	
Traumatic, . . . . .	17	.45	.35
Senile, . . . . .	295	7.73	8.22
With cerebral arteriosclerosis, . . . . .	295	7.73	7.50
General paralysis, . . . . .	252	6.60	7.78
With cerebral syphilis, . . . . .	41	1.07	1.27
With Huntington's chorea, . . . . .	6	.16	.14
With brain tumor, . . . . .	9	.24	.22
With other brain or nervous diseases, . . . . .	36	.94	.99
Alcoholic, . . . . .	296	7.76	10.18
Due to drugs and other exogenous toxins, . . . . .	3	.08	.28
With pellagra, . . . . .	10	.26	.13
With other somatic diseases, . . . . .	140	3.67	2.55
Manic-depressive, . . . . .	308	8.07	8.48
Involution melancholia, . . . . .	74	1.94	2.07
Dementia præcox, . . . . .	986	25.84	24.41
Paranoia and paranoic conditions, . . . . .	72	1.89	1.52
Psychoneuroses, . . . . .	87	2.28	2.28
With mental deficiency, . . . . .	108	2.83	2.01
With constitutional psychopathic inferiority, . . . . .	26	.68	.35
Epileptic, . . . . .	76	1.99	2.64
Undiagnosed, . . . . .	256	6.70	4.91
Not insane, . . . . .	423	11.05	11.72

The following 6 forms—namely, senile, 7.73 per cent; with cerebral arteriosclerosis, 7.73 per cent; general paralysis, 6.60 per cent; alcoholic, 7.76 per cent; manic-depressive, 8.07 per cent; dementia præcox, 25.84 per cent—furnished 63.73 per cent of first admissions, compared with 65.31 per cent the previous year.



## RACE.

The races named below furnished the greatest number of first admissions.

RACE.	1919.		Average, Two Previous Years (Per Cent).
	Cases.	Per Cent.	
English, . . . . .	1,027	26.92	28.64
Irish, . . . . .	984	25.84	25.33
Slavonic, . . . . .	161	4.22	5.81
French, . . . . .	225	5.90	5.32
German, . . . . .	103	2.70	2.28
Italian, . . . . .	195	5.10	4.13
Scotch, . . . . .	69	1.81	2.62
Scandinavian, . . . . .	94	2.46	2.32
Mixed, . . . . .	451	11.82	10.10
Hebrew, . . . . .	163	4.27	2.49
African black, . . . . .	73	1.91	1.76

## AGES.

YEARS.	1919.		Average, Two Previous Years (Per Cent).
	Cases.	Per Cent.	
Under 20, . . . . .	330	8.65	8.50
From 20 to 25, . . . . .	380	9.96	10.29
From 25 to 30, . . . . .	398	10.43	10.87
From 30 to 35, . . . . .	457	11.98	10.96
From 35 to 40, . . . . .	409	10.72	10.30
From 40 to 45, . . . . .	338	8.86	9.28
From 45 to 50, . . . . .	329	8.62	8.26
From 50 to 55, . . . . .	262	6.87	7.55
From 55 to 60, . . . . .	205	5.37	5.48
From 60 to 65, . . . . .	178	4.66	4.99
From 65 to 70, . . . . .	149	3.90	4.29
Over 70, . . . . .	381	9.98	9.23

DEGREE OF EDUCATION.

	1919.		Average, Two Previous Years (Per Cent).
	Cases.	Per Cent.	
Illiterate, . . . . .	313	8.20	10.16
Could read and write, . . . . .	601	15.75	17.06
Attended common school, . . . . .	2,248	53.91	50.53
High school education, . . . . .	379	9.93	10.53
Attended college, . . . . .	97	2.54	2.56
Education unascertained, . . . . .	178	4.67	9.16

ENVIRONMENT.

The urban districts furnished 3,275, or 85.82 per cent, of the first admissions, compared with 84.04 per cent, a two years' average; rural localities, 536, or 14.05 per cent, compared with 15.82 per cent, a two years' average; and there were 5, or .13 per cent, whose place of residence was unknown, compared with .14 per cent, a two years' average.

THE ECONOMIC CONDITIONS

of these admissions are shown as follows:—

	1919.		Average, Two Previous Years (Per Cent).
	Cases.	Per Cent.	
Dependent, . . . . .	483	12.66	17.91
Marginal, . . . . .	2,663	69.78	59.91
Comfortable, . . . . .	596	15.62	19.97
Unascertained, . . . . .	74	1.94	2.21

## USE OF ALCOHOL.

	1919.		Average, Two Previous Years (Per Cent).
	Cases.	Per Cent.	
Abstinent, . . . . .	2,058	53.93	36.52
Temperate, . . . . .	860	22.54	26.75
Intemperate, . . . . .	689	18.06	24.24
Unascertained, . . . . .	209	5.47	12.49

There is a decrease in the number of admissions of alcoholic cases during the year, as will be seen from the above tabulation. The admission of persons classed as intemperate was 18.06 per cent, compared with 20.82 per cent the previous year, and 27.67 per cent in 1917.

## MARITAL CONDITION.

It appears that 1,663, or 43.58 per cent, were single at the time of admission, compared with 43.72 per cent, a two years' average; 1,537, or 40.38 per cent, married, compared with 40.67 per cent, a two years' average; 509, or 13.34 per cent, widowed, compared with 13.32 per cent, a two years' average; 23, or .60 per cent, separated, compared with .54 per cent, a two years' average; 48, or 1.25 per cent, divorced, compared with 1.30 per cent, a two years' average; and there were 36, or .94 per cent, whose marital condition was unknown, compared with .45 per cent, a two years' average.

## ALL DISCHARGES.

## THE RESULTS OF MENTAL DISEASES

at public institutions and McLean Hospital are shown in the conditions of patients on discharge.

	1919.		Average, Two Previous Years (Per Cent.).
	Cases.	Per Cent.	
Recovered, . . . . .	508	15.02	13.84
Improved, . . . . .	1,123	33.23	33.93
Not improved, . . . . .	1,242	36.75	35.66
Not insane at time of discharge, . . . . .	507	15.00	16.57

THE RECOVERY RATE

for the whole State numbered 555, or 9.87 per cent, of all admissions of insane.

The percentages of recoveries under public care and at McLean Hospital (inclusive of insane voluntary and temporary care) were: —

	1919 (Per Cent).	Average, Two Previous Years (Per Cent.)
Of admissions, . . . . .	9.45	8.48
Of daily average number, . . . . .	3.43	2.86

DEATHS.

The death rate of the insane for the whole State during the year was 11.68 per cent of the daily average number on books, compared with 10.29 per cent the previous year. The percentages of deaths in public institutions and McLean Hospital were: —

	1919 (Per Cent).	Average, Two Previous Years (Per Cent).
Of daily average number, . . . . .	11.62	10.42
Of discharges (inclusive of deaths), . . . . .	29.86	33.98

Cerebral arteriosclerosis was present in 13.53 per cent, compared with 14.70 per cent the previous year; general paralysis in 12.09 per cent, compared with 16.54 per cent the previous year; manic-depressive in 5.48 per cent, compared with 6.03 per cent the previous year; dementia præcox in 28.48 per cent, compared with 23.09 per cent the previous year; epilepsy in 5.89 per cent, compared with 6.43 per cent the previous year; alcoholic psychosis in 4.61 per cent, compared with 3.56 per cent the previous year; senile psychosis in 13.52 per cent, compared with 14.76 per cent the previous year.

These seven forms were present in 83.59 per cent of the deaths, compared with 85.11 per cent the previous year.

THE AGE OF PATIENTS  
at time of death was as follows:—

YEARS.	1919 (Per Cent).	Average, Two Previous Years (Per Cent).
Under 20, . . . . .	1.59	.96
20 to 25, . . . . .	4.25	2.12
25 to 30, . . . . .	5.12	3.28
30 to 35, . . . . .	7.99	4.81
35 to 40, . . . . .	8.50	7.26
40 to 45, . . . . .	8.65	9.24
45 to 50, . . . . .	8.91	7.01
50 to 55, . . . . .	7.84	9.42
55 to 60, . . . . .	8.09	9.34
60 to 65, . . . . .	9.01	10.82
65 to 70, . . . . .	8.09	10.51
70 to 75, . . . . .	14.59	11.21
Over 75, . . . . .	7.37	14.02

THE DURATION OF HOSPITAL LIFE  
of patients who died was as follows:—

DURATION.	1919 (Per Cent).	Average, Two Previous Years (Per Cent).
Less than 1 month, . . . . .	15.22	15.35
1 to 3 months, . . . . .	11.57	11.97
4 to 7 months, . . . . .	8.80	9.72
8 to 12 months, . . . . .	5.79	6.62
1 to 2 years, . . . . .	17.00	15.58
3 to 4 years, . . . . .	8.19	9.62
5 to 10 years, . . . . .	15.36	12.46
10 to 15 years, . . . . .	6.70	7.29
15 to 20 years, . . . . .	4.91	4.52
20 to 25 years, . . . . .	3.58	2.87
25 to 30 years, . . . . .	.98	1.91
30 to 35 years, . . . . .	.67	.87
35 to 40 years, . . . . .	.26	.61
40 to 45 years, . . . . .	.92	.38
45 to 50 years, . . . . .	—	.17
50 to 55 years, . . . . .	.05	.06

Further statistical details will be found in the Appendix, beginning with Table No. 11, on which the foregoing statements and conclusions are based.

THE FEEBLE-MINDED.

THE WHOLE NUMBER OF THE FEEBLE-MINDED

under care Oct. 1, 1919, was 3,122, being 1 feeble-minded person to every 1,256 of the estimated population of the State.

The feeble-minded appear under public care in public institutions and almshouses, and under private care in private institutions. Their number and increase in these locations for the year and the last five years are shown as follows:—



	NUMBER OCT. 1, 1919.			INCREASE OVER PREVIOUS YEARS.					Average Increase, Five Years.
	Males.	Females.	Totals.	1919.	1918.	1917.	1916.	1915.	
School for the Feeble-minded at Waltham.	915	618	1,533	18 <sup>1</sup>	25 <sup>1</sup>	14 <sup>1</sup>	44 <sup>1</sup>	69	6.4 <sup>1</sup>
Wrentham School, . . . .	517	689	1,206	6 <sup>1</sup>	115	105	318	45	115.4
Hospital Cottages for Children, <sup>2</sup>	48	27	75	1	74	-	-	-	15.0
Almshouses, . . . . .	113	111	224	35	24 <sup>1</sup>	30 <sup>1</sup>	9	64	10.8
State Infirmary, . . . . .	-	-	-	-	-	-	-	-	-
Total, public, . . . . .	1,593	1,445	3,038	12	140	61	283	178	134.8
Elm Hill, . . . . .	30	11	41	1 <sup>1</sup>	2 <sup>1</sup>	4 <sup>1</sup>	1 <sup>1</sup>	5 <sup>1</sup>	2.6 <sup>1</sup>
Smaller private institutions, .	10	33	43	5 <sup>1</sup>	33	3	1 <sup>1</sup>	-	6.0
Total, public and private, .	1,633	1,489	3,122	6	171	60	281	173	138.2

<sup>1</sup> Decrease.<sup>2</sup> Placed again under care of Commission, April, 1918.

### THE INCREASE OF THE FEEBLE-MINDED

under care for the year was 6, compared with an increase of 171 the previous year, and 138, the average increase for the last five years. The small increase in the number of feeble-minded was also due largely to industrial conditions prevailing.

The number of non-resident feeble-minded was 34, compared with the same number the previous year. Of these, 32 were patients in private institutions, and 2, private patients in State institutions.

It is the policy of the State to receive feeble-minded persons from other States only when there is no school for the feeble-minded in such States, and then only in urgent cases. The non-resident patients are paid for at a rate which fully compensates the State for the cost of their maintenance.

### THE EPILEPTIC.

#### THE WHOLE NUMBER OF THE EPILEPTIC

under care Oct. 1, 1919, was 1,378, being 1 epileptic to every 2,848 of the estimated population of the State.

The epileptic appear under public care in the Monson State Hospital, the State hospitals and other public institu-

tions, and under private care in private institutions. Details will be found under the Monson State Hospital.

Their number and increase in these locations for the year and for the last five years are shown as follows:—

	NUMBER OCT. 1, 1919.			INCREASE OVER PREVIOUS YEARS.					Average Increase, Five Years.
	Males.	Females.	Totals.	1919.	1918.	1917.	1916.	1915.	
Monson Hospital, . . . .	446	476	922	32 <sup>1</sup>	88 <sup>1</sup>	49	22 <sup>1</sup>	52	8.2 <sup>1</sup>
Public institutions for insane, .	199	185	384	59 <sup>1</sup>	7 <sup>1</sup>	31 <sup>1</sup>	57	22	3.6 <sup>1</sup>
Schools for the feeble-minded, .	8	5	13	-	-	-	-	21 <sup>1</sup>	4.2 <sup>1</sup>
Hospital Cottages, . . . .	35	17	52	5 <sup>1</sup>	57	-	-	-	10.4
Total, public, . . . .	688	683	1,371	96 <sup>1</sup>	38 <sup>1</sup>	18	35	53	5.6 <sup>1</sup>
Private institutions, . . . .	3	4	7	3 <sup>1</sup>	3	4 <sup>1</sup>	1	3 <sup>1</sup>	1.2 <sup>1</sup>
Total, public and private, .	691	687	1,378	99 <sup>1</sup>	35 <sup>1</sup>	14	36	50	6.8 <sup>1</sup>

<sup>1</sup> Decrease.

In addition, the overseers of the poor report (March 31, 1919) 58 epileptics in city and town almshouses and private families.

#### THE DECREASE OF THE EPILEPTIC

under care for the year was 99, compared with a decrease of 35 the previous year, and 6, the average decrease for the last five years.

#### REPORT OF THE PATHOLOGIST AS DIRECTOR OF THE MASSACHUSETTS STATE PSYCHIATRIC INSTITUTE.

*To the Commission on Mental Diseases.*

Following is the pathologist's eleventh report and the tenth to cover a full year of work.

The duties of the pathologist to the Commission, originally appointed May 1, 1909, have been designated as follows: (1) supervision of the clinical, pathological and research work in the various institutions under the Commission's supervision and control; (2) visits to the institutions from time to time; and (3) reports to the Commission comprising conditions, observations and such recommendations as result therefrom.



These duties had been modified, and the entire scope of the pathological service was broadened after the establishment of the Psychopathic Hospital and the appointment of the Commission's pathologist to the directorate of the hospital. This directorate has within the year, May 1, 1919, been transferred to a new division of the Commission's work, namely, to the Massachusetts State Psychiatric Institute.

The research laboratories heretofore established and now maintained at the Psychopathic Department of the Boston State Hospital by the Massachusetts Commission on Mental Diseases are hereby continued, and shall hereafter be known as the Massachusetts State Psychiatric Institute. Such institute shall be under the general supervision and control of the Massachusetts Commission on Mental Diseases, and shall be maintained by the Commission from appropriations obtained for the purpose.

The object of the institute shall be —

1. To make psychiatric and pathological researches and investigations.
2. To give instruction in psychiatry, neurology, pathology, psychology and social service, with special reference to instruction in the nature, causes, treatment and results of mental diseases and defects.
3. To promote the advancement of mental hygiene.
4. To encourage scientific work in the institutions.
5. To co-ordinate publications of a scientific nature.
6. To carry on the routine and special duties of the pathological service of the Commission.
7. To supervise and correlate the clinical and laboratory work of the institutions under the Commission.

For the purpose of clinical studies, scientific research and instruction, the clinical facilities of the institutions under the Massachusetts Commission on Mental Diseases, including the Psychopathic Department of the Boston State Hospital, shall be placed at the disposal of the institute.

The director of such institute shall be psychiatrist to the Massachusetts Commission on Mental Diseases. He shall be appointed together with such other officers and employees as may be deemed necessary, and their compensation shall be fixed by the Commission. The director shall perform, under the direction of the Commission, such duties relating to psychiatric and pathological research and the instruction of medical

staffs of the institutions under the Commission, and such other duties as may be required by the Commission. He shall have the supervision and control of such institute and of the physicians and other employees therein, subject to the general direction, supervision and control of the Commission. The institutions under the Commission shall co-operate with the institute in such manner as the Commission may, from time to time, direct. Such officers and employees as the Commission may determine shall, if required by the Commission, reside at the Psychopathic Department of the Boston State Hospital or such other institutions as may be determined, and shall be furnished maintenance in whole or in part.

#### I. GENERAL.

Although a year has passed since the signing of the armistice, there has been difficulty in keeping the morale from disappearing. Having bridged over this difficult period without loss to the progress of the pathological division is a matter for congratulation.

The undersigned was appointed pathologist in 1909, with general duties (except for work on Psychopathic Hospital plans) until his appointment as director of the Psychopathic Department of the Boston State Hospital; with that appointment the Psychopathic Hospital became (1912) in effect the research institute of the Commission on Mental Diseases, now continued as the Massachusetts State Psychiatric Institute since May, 1919.

In July, 1914, Dr. Myrtelle M. Canavan was appointed as assistant pathologist, together with a clerk and technician.

In 1915 Harry C. Solomon, M.D., was appointed to study the therapy of treatment of neurosyphilis systematically.

In 1916 the pathological work was more than one person could accomplish, and Dr. Douglas A. Thom was appointed assistant pathologist. By courtesy of the Grafton State Hospital, special wards were fitted up for the treatment of syphilis of the nervous system, and a laboratory established in the same building by the Commission, Dr. Thom assuming charge of the laboratory and of the treatment of the neurosyphilitics.

In 1917 Harry C. Solomon (lieutenant) went from the Commission's service to the subsection on head surgery, and Douglas A. Thom (captain) to the division on neuropsychiatry, yet the syphilis work was kept up by the efforts of the chief medical officer of the Psychopathic Hospital, Dr. Lawson G. Lowrey,

and Dr. Ada F. Harris, and finally the work was consolidated by the appointment in August, 1918, of Dr. Oscar J. Raeder, who kept the syphilis clinics active, and, as pathologist to the Boston State Hospital, combined therapeutic with pathological work. In June an interim report concerning the syphilis clinics under the Commission was made by Dr. O. J. Raeder to the American Medico-Psychological Association, the conclusions of which are as follows: —

1. In 428 cases of neurosyphilis treated during a period of four years, 129 cases, or practically 30 per cent, showed definite benefit, and 125 cases, of which a certain percentage can be expected to show similar improvement are under treatment in hospitals. Among 93 cases that have drifted away, another definite proportion, probably a larger number, comparatively, can be presumed to have benefited from treatment.

2. There are two definite groups of cases of neurosyphilis, — the early, or Psychopathic Hospital group, and the advanced committable or “custodial group.” The early case of the Psychopathic Hospital type is not met with in insane hospitals, — except in such as conduct outpatient departments. These cases, also, frequently first come to professional attention through the field of general or “internal” medicine.

3. The relatives — spouses, parents and offspring — of syphilitics and neurosyphilitics form a most important group in which not only syphilis but the earliest degrees of neurosyphilis, in the presymptomatic, often entirely unsuspected, stages, are brought to light by lumbar puncture and seroanalysis. It is these types in which by far the most benefit can be expected.

4. Early diagnosis (before pronounced mental symptoms have appeared) gives the greatest promise of successful results. It seems that for some reason, probably of a physiologico-chemical character, the curative agent is less able, or practically unable, to influence certain bacterial toxins after they have had time to combine with the neuroplasm. Another instance of this phenomenon is shown in the case of the tetanus toxin.

5. Apparently advanced neurosyphilis is not a contraindication to treatment; there is a distinct, though not large, percentage of such cases that amply gratify the efforts of intensive attack.

6. In early and atypical cases the most exhaustive and often repeated, serological and spinal fluid examinations are the best guides to the diagnosis. The provocative method should not be overlooked.

7. Intensive and prolonged treatment to the point of saturation with the combined force of the three specifics, — arsenic, mercury and potassium iodide. Arsphenamine has been preferred to neo-arsphenamine as more lasting in its effects.

8. The *therapia præsens* of neurosyphilis is but a transition state in rational syphilotherapy. Medical science has discovered several good



clues which must be followed up, and others ferreted out and run down before the solution of the problem is complete. Indeed, the successful treatment of paresis and tabes, as well as general vascular syphilis and visceral tertiaries such as the crippling cardio-pathia, etc., may ultimately be realized in the field of preventive medicine. With chemotherapy, however, Ehrlich has doubtless found the most vulnerable approach to the treponemiotic diseases, but further research is necessary and other combinations must be found before the life of this anthropophagous pest is successfully snuffed out.

Dr. H. C. Solomon returned from service in May, 1919, and relieved Dr. O. J. Raeder of the Psychopathic Syphilis Clinic in July, 1919. A large number of general paretics were paroled after improvement obtained during treatment, and important service was also rendered in treating syphilitic patients insane from some other cause, thus improving their general health. Due to its location in the city of Boston, the clinic at the Psychopathic Department of the Boston State Hospital and its out-patient department has been treating the largest number of syphilitic patients, there being some two hundred active cases reporting for treatment. These are largely early cases of nervous system involvement who have not had to be committed for mental diseases, and those cases which have been paroled from other institutions and who live in the vicinity of Boston. The results of the early cases are, of course, likely to be much more satisfactory than those obtained in the later ones; therefore, the clinic at the Psychopathic Hospital is in many ways the most satisfactory one from the standpoint of therapeutic results.

A most important function of the syphilis service is attempting to prevent central nervous system involvement in syphilis. The survey of cases of body syphilis shows that many cases of neurosyphilis may be detected early if attention is given to this matter.

An examination for evidences of syphilis in the families of all syphilitics entering the Psychopathic Department of the Boston State Hospital for the past five years has been made, and this work has been continued and is to a certain extent being adopted in some of the State hospitals. This is considered a most important procedure from the point of preventive medicine.

Dr. James S. Plant became an interne of the Massachusetts State Psychiatric Institute in July, 1919, on the syphilis serv-

ice, remaining until his resignation in August, 1919, when he went abroad.

A great opportunity for investigation and research in syphilis is afforded to the institute by a grant from the United States Interdepartmental Social Hygiene Board. This grant allows for pathological research and social investigation. This work was started at the very end of the year, but has allowed one to see broad vistas of what may be accomplished during the next year.

One of the difficulties in the past in the treatment of syphilitic cases has been the expense of the drug. The appropriation of \$7,000 the previous year was decreased to \$6,000 when the Commission found that the Commonwealth of Massachusetts could manufacture the drug for free distribution. We now receive the drug from the State Department of Health, which has greatly facilitated our work.

## II. ROUTINE OF THE PATHOLOGICAL SERVICE: AUTOPSIES.

Since the establishment of the pathological service in July, 1914, a period of sixty-five months, there have been 1,193 autopsies performed, the vast majority by the heads of the service, in some instances (though much fewer this year) by hospital pathologists acting as prosecutors. It will be noted that these autopsies are nearly all autopsies which would not have been performed except for the facilities of the Commission's pathological service, for the majority of these autopsies, as the table will show, are done where they have no pathological service of their own. Where an institution has too few deaths, or for other reasons does not maintain a pathological laboratory, the Commission has stepped in to round out the pathological work of the State and give uniform advantages of pathological examinations to all institutions.

During the year ending Nov. 30, 1919, there were 213 autopsies, 72 less than the previous year when influenza was prevalent. Three hospitals also have installed pathologists in their plants this year,—at Foxborough, Dr. John T. Wiseman; at Medfield, Dr. Anna H. Kandib; and at Taunton, Dr. Fannie C. Haines.

The following table shows the number of autopsies performed in the different institutions by the pathological service of the Commission (exclusive of autopsies performed by the staffs of the institutions): —

Boston Hospital, . . . . .	114
Grafton Hospital, . . . . .	38
Medfield Hospital, . . . . .	19
Foxborough Hospital, . . . . .	10
Psychopathic Department, Boston Hospital, . . . . .	8
Taunton Hospital, . . . . .	8
Bridgewater Hospital, . . . . .	4
Gardner Colony, . . . . .	3
Wrentham School, . . . . .	2
Monson Hospital, . . . . .	2
Worcester Hospital, . . . . .	2
Massachusetts School for the Feeble-minded, . . . . .	1
Northampton Hospital, . . . . .	1
Miscellaneous, . . . . .	1
Total, . . . . .	213

*Table showing Proportion of Autopsies to Deaths in Institutions.*

	Total Number of Deaths for Year.	Total Number of Autopsies.	Per Cent.
Foxborough Hospital, . . . . .	33	21 (10 <sup>1</sup> )	66
Boston Hospital, . . . . .	232	114 <sup>1</sup>	49
Taunton Hospital, . . . . .	197	92 (8 <sup>1</sup> )	46
Grafton Hospital, . . . . .	83	38 <sup>1</sup>	45
Worcester Hospital, . . . . .	181	62 <sup>1</sup>	34
Medfield Hospital, . . . . .	81	21 (19 <sup>1</sup> )	25
Danvers Hospital, . . . . .	219	42	19
Psychopathic Department, Boston Hospital, . . . . .	43	8 <sup>1</sup>	18
State Infirmary, mental wards, . . . . .	40	6	15
Wrentham School, . . . . .	14	2 <sup>1</sup>	14
Bridgewater Hospital, . . . . .	31	4 <sup>1</sup>	12
Westborough Hospital, . . . . .	110	13	11
Gardner Colony, . . . . .	30	3 <sup>1</sup>	10
Northampton Hospital, . . . . .	131	4 <sup>1</sup>	3
Massachusetts School for the Feeble-minded, . . . . .	36	1 <sup>1</sup>	2
Monson Hospital, . . . . .	83	2 <sup>1</sup>	2
Miscellaneous, . . . . .	—	1	—
	1,544	434	—

Total number of deaths in State hospitals in Massachusetts in 1919, fiscal year, . . . . . 1,544

Total number of autopsies performed, . . . . . 434

(a) By laboratories independent of Commission, . . . . . 221

(b) By Commission, . . . . . 213

<sup>1</sup> Done by Commission.

The routine of the pathological service naturally deals primarily with cases of sudden death, not only those which are medicolegal, in the narrow sense of a suspicion of foul play, but also other sudden deaths where there might be a question of negligence or accident. The following table gives data concerning sudden deaths reported to the Commission:—

Sudden deaths reported to Commission, . . . . .	77
Number autopsied, . . . . .	33
Number autopsied by service, . . . . .	21
Miscellaneous and unknown, . . . . .	13
Suicides, . . . . .	6
General paresis or tabes, . . . . .	5
Acute infection, . . . . .	5
Epilepsy and asphyxia, . . . . .	4
Arteriosclerosis or coronary, . . . . .	3
Complicated by fractures, . . . . .	3
Organic heart disease, . . . . .	2
Choked by food, . . . . .	2

Besides the 213 autopsies (72 less than the preceding year, when influenza contributed to the death and autopsy rate) in institutions there have been 42 viewings of bodies not followed by autopsies by the pathological service, though occasionally followed by autopsies by medical examiners.

The problem of sudden death in institutions is always difficult. It is, of course, understood that many cases of sudden death are by no means of medicolegal suspicion. The following table gives a total of 262 sudden deaths, both medicolegal and otherwise, that were autopsied:—

*Analysis, Autopsied Cases (Sudden Deaths).*

	1913-14.	1914-15.	1915-16.	1916-17.	1917-18.	1918-19.	Total.
Heart lesions, . . . . .	4	9	13	13	16	5	60
Acute infections, . . . . .	11	13	8	4	9	7	52
Foreign bodies in larynx, . . . . .	3	2	7	2	2	—	16
Epilepsy, . . . . .	1	6	—	5	4	—	16
General paresis, . . . . .	3	1	2	6	1	3	16
Homicides, . . . . .	3	3	3	1	2	—	12
Suicides, . . . . .	3	3	1	3	3	5	18
Tuberculosis, . . . . .	1	2	2	3	2	3	13



*Analysis, Autopsied Cases (Sudden Deaths) — Concluded.*

	1913-14.	1914-15.	1915-16.	1916-17.	1917-18.	1918-19.	Total.
Fractures, . . . . .	1	3	1	1	2	7 <sup>1</sup>	15
Cerebral hemorrhages, .	—	—	5	—	1	—	6
Thrombosis, . . . . .	2	—	—	2	—	—	4
After tube feeding, . . .	1	—	1	1	—	1	4
Burns, . . . . .	1	1	—	—	—	1	3
Hemorrhage, . . . . .	1	—	1	—	2	—	4
Brain tumor, . . . . .	—	—	2	—	—	2	4
Asphyxia, . . . . .	—	1	—	1	—	—	2
Katatonic "Hirntod," .	—	—	1	1	—	—	2
Acute mania, . . . . .	1	—	—	1	—	—	2
Collapse after bath, . .	—	1	—	—	—	—	1 <sup>1</sup>
Salvarsan, . . . . .	—	—	—	—	—	2	2
Fall, . . . . .	1	—	—	—	—	—	1
Œdema, brain, . . . . .	1	—	—	—	—	—	1
Arteriosclerosis, . . . .	1	—	—	—	—	1	2
Ruptured bladder, . . .	—	—	1	—	—	—	1
Carcinoma, . . . . .	—	—	1	—	2	1	4
Drowned (accident), . . .	—	—	—	1	—	—	1
Pernicious anæmia, . . .	—	—	—	—	1	—	1
Acute gastritis, . . . . .	—	—	—	—	1	—	1
Œdema, glottis, . . . . .	—	—	—	—	1	—	1
Ruptured spleen, . . . .	—	—	—	—	1	—	1
Ruptured heart, . . . . .	—	—	—	—	1	—	1
Alcohol, . . . . .	—	—	—	—	—	1	1
Unknown, . . . . .	—	—	—	—	—	1	1
Totals, . . . . .	39	45	49	45	51	33 <sup>2</sup>	262 <sup>2</sup>

<sup>1</sup> Fractures complicated death.<sup>2</sup> Exclusive of the 7 fractures in 1918-19 which complicated death and where the cause of death is under another heading.

Relative to mental diagnosis in suicides, there have been warnings given before about suicides in præcox cases. The figures this year are for 67 cases who have suicided in six years. Præcox closely follows manie-depressive throughout in the analysis.

Analysis of Suicides (Autopsied and Non-autopsied).

	1913-14.		1914-15.		1915-16.		1916-17.		1917-18.		1918-19.		Total.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	
Dementia præcox, . . . . .	1	-	1	-	3	-	2	1	3	4	1	3	19
Manic-depressive, . . . . .	-	2	2	2	3	1	2	4	3	3	1	2	25
General paresis, . . . . .	-	-	-	1	-	-	-	-	-	-	-	-	1
Epilepsy, . . . . .	-	-	-	-	1	-	-	-	1	-	-	-	2
Diagnosis unknown, <sup>1</sup> . . . . .	3	3	-	-	1	-	1	1	-	-	2	-	11
Imbecile, . . . . .	-	-	-	-	-	-	1	-	3	-	-	1	5
Psychosis with arteriosclerosis, . . . . .	-	-	-	-	-	-	-	-	1	-	-	-	1
Alcoholic psychosis, . . . . .	-	-	-	-	-	-	-	-	-	-	3	-	3
Totals, . . . . .	4	5	3	3	8	1	6	6	11	7	7	6	67

Diagnoses in suicides in State hospitals, 67.

<sup>1</sup> Death before a definite mental diagnosis determined.

Two hundred and eight accidents were reported to the Commission during 1919. The years 1914 to 1919 yield a decreasing number, as follows:—

1914, . . . . .	364	1917, . . . . .	235
1915, . . . . .	313	1918, . . . . .	221
1916, . . . . .	304	1919, . . . . .	208

It is noted that there is again a less number of fractures and dislocations this year, — 98 fractures and 9 dislocations. Considering the number of contacts made daily, it is not unworthy of note that there are so few, regrettably many as there are. Without X-ray facilities in all hospitals it is not supposed that diagnosis is made on all fractures; they are occasionally revealed post mortem.

III. ROUTINE OF THE PATHOLOGICAL SERVICE: CASUALTIES.

We present six years' experience in the special analysis of the casualties of the institutions. The casualty records of each institution are analyzed by an analytical chart of casualties in institutions (being Chart G of the Commission's pathological charts) under three headings, namely, statistics, nature and severity, and manner of injury.

CASUALTY TABLE A.  
*Casualties arranged by Institutions.*

INSTITUTION.	Males.	Females.	Total Number of Patients.	Total Number of Accidents.
Medfield Hospital, . . . . .	11	50	61	61
Boston Hospital (main), . . . . .	9	15	24	24
Taunton Hospital, . . . . .	14	6	20	20
Grafton Hospital, . . . . .	6	12	18	18
Westborough Hospital, . . . . .	8	7	15	15
Gardner Colony, . . . . .	12	1	13	13
Danvers Hospital, . . . . .	5	7	12	12
Wrentham School, . . . . .	7	4	11	11
Monson Hospital, . . . . .	8	2	10	10
Worcester Hospital, . . . . .	1	3	4	4
Foxborough Hospital, . . . . .	3	1	4	4
McLean Hospital, . . . . .	3	1	4	4
Psychopathic Department, Boston State Hos- pital.	2	1	3	3
State Infirmary, mental wards, . . . . .	1	1	2	2
Massachusetts School for Feeble-minded, . .	2	-	2	2
Hospital Cottages for Children, . . . . .	2	-	2	2
Arlington Health Resort, . . . . .	-	1	1	1
Bournewood Hospital, . . . . .	-	1	1	1
Wellesley Nervine, . . . . .	-	1	1	1
Northampton Hospital, . . . . .	-	-	-	-
Bridgewater Hospital, . . . . .	-	-	-	-
Totals, . . . . .	94	114	208	208

## CASUALTY TABLE B.

*Casualties arranged by Institutions and Severity of Injury.*

	Fractures.	Dislocations.	Gunshot.	Other Severe Injuries.	Total Severe Injuries.	Less Severe Injuries.
<i>Receiving Institutions.</i>						
Boston Hospital:—						
Main department, . . . . .	21	—	—	—	21	3
Psychopathic Department, . . . . .	2	—	—	—	2	1
Danvers Hospital, . . . . .	9	1	—	—	10	2
Northampton Hospital, . . . . .	—	—	—	—	—	—
Taunton Hospital, . . . . .	6	—	—	1	7	13
Westborough Hospital, . . . . .	10	1	—	1	12	4
Worcester Hospital, . . . . .	3	—	—	—	3	1
<i>Institutions chiefly for Transfers.</i>						
Grafton Hospital, . . . . .	13	1	—	1	15	4
Medfield Hospital, . . . . .	9	1	—	1	11	53
Gardner Colony, . . . . .	5	2	—	1	8	6
Foxborough Hospital, . . . . .	4	—	—	—	4	—
State Infirmery, mental wards, . . . . .	2	—	—	—	2	—
Bridgewater Hospital, . . . . .	—	—	—	—	—	—
<i>Institutions for the Feeble-minded.</i>						
Massachusetts School, . . . . .	1	—	—	—	1	1
Wrentham School, . . . . .	3	1	—	—	4	7
<i>Special Public Institutions.</i>						
Monson Hospital, . . . . .	5	1	—	—	6	7
<i>Special Private Institutions.</i>						
Arlington Health Resort, . . . . .	—	1	—	—	1	—
McLean Hospital, . . . . .	2	—	—	—	2	—
Hospital Cottages for Children, . . . . .	1	—	—	—	1	1
Bournewood Hospital, . . . . .	1	—	—	—	1	—
Wellesley Nervine, . . . . .	1	—	—	—	1	—
Totals, . . . . .	98	9	—	5	112	103

CASUALTY TABLE C.  
*Manner of Injury.*

	Bridgewater Hospital.	Arlington Health Re- sort.	Psychopathic Hospital.	Grafton Hospital.	Medfield Hospital.	Gardner Colony.	Mental Wards, State Infirmary.	Monson Hospital.	Massachusetts School for the Feeble-minded.	Wrentham School.	Foxborough Hospital.	Worcester Hospital.	Taunton Hospital.	Northampton Hospital.	Danvers Hospital.	Westborough Hospital.	Boston State Hospital.	McLean Hospital.	Hospital Cottages for Children.	Bournwood Hospital.	Wellesley Nervine.
Unknown, . . . . .	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Medical accidents: —																					
Suicidal, . . . . .					1															1	
Homicidal, . . . . .					1																
Self-mutilation, . . . . .					1																
Sex-assault, . . . . .					1	2															
Other motivated act, . . . . .																					
Impulsive act, . . . . .																					
Reaction to hallucination, . . . . .				1	4	2						1	9								
Psychomotor excitement, . . . . .					3								1								
Motor restlessness, . . . . .					4																
Paralysis, . . . . .																					
Arteriosclerotic seizure, . . . . .																					
Ataxia, . . . . .																					
Muscular weakness, . . . . .					1																
Sense defect, . . . . .					1																
Paretic seizure, . . . . .																					
Epileptic seizure, . . . . .				2	6			4													
Epileptiform seizure, . . . . .																					
Seizure of other nature, . . . . .																					
Habitual dislocation, . . . . .																					
Asocial acts: —																					
Of another patient, . . . . .				9	23	4	1	2	1	2		1	9				3				
Of attendant, . . . . .			1		7			2		1							1				
Scuffle of patients, . . . . .					2			2													
Scuffle with attendant, male, . . . . .					5			2													
Scuffle with attendant, female, . . . . .					1																
Self-defence, . . . . .																					
Retaliation, . . . . .				4	5								1				3				
Mayhem, . . . . .													2								
Poisoning, . . . . .																					
Occupational: —																					
Machinery, . . . . .																					
Farming, . . . . .																					
Other, . . . . .																					
Unavoidable natural causes, . . . . .				6	12	5	1		1	5			3			4	6	11			



## IV. INVESTIGATIONS.

The investigative function of the pathological service may be said to execute the provisions of section 6, chapter 504, Acts of 1909, which section reads in part as follows:—

The board shall encourage scientific investigation by the medical staffs of the various institutions under its supervision, shall publish from time to time bulletins and reports of the scientific and clinical work done therein, . . .

In compliance with these provisions the Commission has established a bulletin under the editorship of Drs. George M. Kline, Walter E. Fernald and E. E. Southard. This bulletin is designed to include such publications by the officers of the different institutions as may be deemed worthy of reprinting. The editorial board has for the most part omitted only papers of a fragmentary and propagandist nature, or papers which are bound to secure, owing to their mode of publication elsewhere, a sufficiently wide circulation.

The quarterly bulletin is designed to take the place of the "Collected Publications" of the Commission and of the institutions, which have been issued in previous years. At the date of writing, Volumes I and II, of four numbers each, have been completed, and contain a selection of 115 papers from the number published.

The estimates for scientific investigation, amounting in the years following 1911 to \$2,500 annually, were increased in 1915 to \$5,000, to provide for the investigation and treatment of syphilis of the nervous system, then deemed desirable. The estimate for 1917 was increased to \$7,000, reduced in 1919 to \$6,000 and increased for 1920 to \$8,000. No comprehensive account of the investigations undertaken under the appropriations which have been duly granted will be given in this report. The general nature of these investigations may be seen from the list of publications given below in Section VII of this report.

The general hygienic status of the institutions this year has been bright. The epidemic of influenza seemingly has cleared the air of infectious disease to a great extent. The Public Health Service has conducted a huge scientific experi-

ment in the inoculation of patients in the State hospitals against pneumonia. The type of the infecting organism of pneumonia cases has been undertaken by the Department of Preventive Medicine at Harvard Medical School, at the request of the Federal government. Specimens of sputum are turned in to them from all cases in the State hospitals suspected of pneumonia. The pathological service has co-operated by sending specimens from lungs shown to be pneumonic at autopsy. It is the first State-wide attempt at preventing an infectious disease since the anti-typhoid inoculations, which are regularly given to all new employees and patients in the State hospital service.

The opening of the Foxborough State Hospital Laboratory was one of the notable achievements of the year. A series of basement rooms was finished off and painted. Continuous desk room lined one wall under the windows, connected at one end with the director's private office and the library, and on the other with the autopsy room.

The general workroom is a most convenient one and adequately lighted, equipped with electric incubator, centrifuge and distilling apparatus, besides the usual microtomes, microscopes and minor fittings. The major work of the day is done here, — blood counting, throat cultures, media making, histology. The autopsy room is most complete with its large sink, with draining boards, shelves, drawers, radiators on walls, large wide table possible to accommodate two bodies, and overhead water connections and daylight lighting.

The director's office and library are closely joined, separated only by glass windows, making a quiet workroom near the references one constantly makes. This laboratory near the dispensary makes a work unit of seven rooms, with a floor space of 2,340 square feet.

This laboratory was opened for use on June 1, 1919, with trustees and superintendents at the quarterly meeting of the assistant physicians and social workers. In all, 80 guests assembled, and were entertained by the hospital in commemoration of the event. No hospital had opened a laboratory since 1916, when the Commission grouped two rooms at the Summer Street Department of Grafton State Hospital.

The Foxborough program consisted of 15 papers, which, for the most part, are to be reproduced in the special Foxborough number of the Bulletin of the Department of Mental Diseases.

Special mention is to be made of the work of Dr. Fannie C. Haines, who accomplished a complete Wassermann survey of the hospital patients in the year, and who gathered together all of the protocols from 1866 to date, typed the ones untyped, and made an index of the psychoses and another of the anatomical diagnoses of over 900 cases. She will report the results of 1,000 cases in the following year. It is of interest that the autopsy records of the Danvers, Worcester, Westborough, Monson and Boston State hospitals and the pathological service of the Massachusetts Commission are also indexed.

Progress has been made on the "Anatomy of Mental Disease," a book by E. E. Southard and M. M. Canavan, in the collection and arrangement of the cases chosen. It is proposed to make the 1,000 autopsies made by the Commission's pathologist and assistants the basis of the book. Photographs have been made of a large number (over 1,000 brains) from which to choose. Fifty cases have been dictated, the completion of which is contemplated in the ensuing year. A cursory outline of the plan is given in a paper at the American Medico-Psychological Association on "The First Thousand Autopsies of the Pathological Service of the Massachusetts Commission on Mental Diseases, 1914-1919," by E. E. Southard, Myrtelle M. Canavan and D. A. Thom, published in the "Transactions," 1919.

The second Waverley research monograph is ready for press, and the third series of ten cases is on the way, having reached the stage of histological analyses. The fourth series has been collected, and will be well under way by the close of the year 1920. The original plan of a completed monograph of 50 cases studied in the same intensive way does not seem so far off, especially since O. J. Raeder has made the decision to spend his time on Group II (hypophrenosis) of the author's "Classification of Mental Diseases."

The other activities have been the result of years of experience, and a book on psychiatric social work with Mary C. Jarrett, formerly chief of the social service at the Psychopathic Department, Boston State Hospital, has been worked on in the attempt to present social service problems at a psychological moment when post-war activities under the Red Cross and Public Health Service, in control of the treatment of returned soldiers, require a substantial record of cases treated socially, with a working plan for attacking the questions confronting



the worker who deals with conditions dependent on temperament, unemployment and mental abnormalities. The demand for trained social workers, a course for which was conducted by Smith College during the past two years under the general direction of the writer, has far exceeded the supply, and requests are numerous and urgent for a continuance of the work which this book will facilitate. It is hoped that the human problem and the solutions presented will also be of use to those now actively engaged in hospital work. It has been the thought of many that social service was an additional arm to the hospital armamentarium only because it dealt with following up the cases discharged and reporting their condition. It has been the writer's belief that the properly trained social worker can be of greater service than this in actually treating the case in the out-patient department by social adjustment, assisting in the prevention of a mental breakdown, and thereby reducing the hospital care of persons who need some support and interest in their problems, which mainly hang on disease, poverty, ignorance, vice or the law. In families where a mental break has come, the social visitor can render aid to the psychiatrist and to the family by adopting a simple uniform method of searching out the dominant human factors in the household and placing the problem. Consultation with a psychiatrist then becomes a simpler process, and advice and treatment of the situation clears. These, then, are some of the author's ideas of the position and value of the psychiatric social worker, — a distinct entity not too well comprehended by the medical social worker, nor by those physicians who appear to resent the usurpation of their authority or knowledge. It has never been the experience of the writer that delegating work to be done leads to uncontrolled results, the major point being to carefully select the worker.

The delayed book on "Shell-Shock" has appeared. For over two years the writer and collaborator, Norman Fenton, have poured over the literature to present, as a compilation, the case histories of nerve and mind disorder consequent upon the war. These were drawn upon to make a collection of sufficient cases for use and guide for medical and social workers, and for line officers in consideration of cases for diagnosis, treatment or of discipline. The vast problem in mental hygiene presented to the United States at the close of the war, when the mentally diseased members of the American Expeditionary Force were brought home, was appalling. There was no American neurologist living

who could advise adequately, from lessons learned in the civil war, in the world war problems. No one neurologist who had had adequate experience had been free enough from the press of actual duty to write extensively, hence the writer's zeal to collect the cases illustrating types of lesions that had been imperative enough to be reported from the hospitals under stress. It is in no sense a textbook of the author on shell-shock.

I refer you to last year's report for a list of sixteen men who were sent by the Division of Neurology and Psychiatry for army instruction courses. There was, of course, no such occasion this year, but those who voluntarily worked in the institute for histological technique and an insight into the problems of neuropsychiatry were Louis A. Lurie, Richard Lyman, Hugo Milla, E. L. Mann and James S. Plant.

The following table shows the routine work of the investigative staff of the Commission: —

Visits to institutions, . . . . .	259
By pathologist, . . . . .	36
By assistant pathologist, . . . . .	223
Autopsies in cases of sudden deaths, . . . . .	33
Severe accidents in institutions, . . . . .	112
Less severe accidents, . . . . .	103
Total accidents, . . . . .	215
Circular letters, . . . . .	4
Publications, . . . . .	41

## V. EXCERPTS FROM ANNUAL REPORTS OF INSTITUTIONS.

### **Worcester State Hospital.**

#### *Health of the Population.*

The general health of the hospital has been good. A male patient died from diphtheria a few days after his admission, and two nurses were sent to the isolation hospital suffering with the disease. These were sporadic cases, and the disease was undoubtedly contracted outside of the hospital. Two cases of pellagra were admitted.

#### *Suicides and Sudden Deaths.*

One patient strangled himself by tying one end of a sheet about his neck, the other end to a rod at the head of the bed, and drew himself down towards the foot of the bed. Another



patient secured a piece of suspender and committed suicide by hanging himself to a bedpost. Attempts at resuscitation failed in both cases. In a patient who had passed through a protracted illness, the autopsy revealed a few small particles of food in the trachea and bronchi. Upon investigation it was found he had been fed corn chowder about three hours before his death. Evidently while trying to swallow the nourishment he inspired some, which caused sufficient irritation in the course of a few hours to extinguish the spark of life that remained. These deaths were immediately reported to the medical examiner and Dr. Myrtelle M. Canavan of the Massachusetts Commission on Mental Diseases, and both were present at the autopsies and investigated the circumstances which resulted in the death of the patients.

#### *Staff Conferences.*

An effort has been made to hold a clinical staff meeting every morning except Sundays and holidays. Saturday mornings are reserved for a literature meeting, at which time abstracts are read, and the articles and other clinical matters discussed. A laboratory staff meeting is scheduled to be held in the laboratory twice a month, at which time interesting pathological material is reviewed, and a correlation is often made of clinical and pathological findings.

Two hundred and eleven clinical staff conferences were held the past year at which 667 cases were presented. All first admission and readmission cases, showing new features of the psychoses, as well as many cases to determine the advisability of their return to the community, were presented. A clinical meeting consists of reading an abstract by the physician, which embraces a summary of the anamnesis; the condition of the patient when admitted; the physical and neurological findings, including the laboratory reports, the mental status, the social service report in many cases, and the psychological in a few; a stenographic report of the direct examination of the patient, which is included under date as a regular part of the case record; and the opinion of each member of the staff and visiting physicians present.

#### *Electrotherapeutic Department.*

The electrical treatment room, which includes the X-ray machine, has been of much service. There have been 44 sciagrams taken, filed and indexed of surgical cases, and 31 of medical

cases; 8 dental films; 3 cases of epithelioma and puritis treated; and considerable fluoroscopic work done. The wall plate has been frequently used for cases in the out-patient department.

*Treatment of Syphilitic Cases.*

During the year 24 patients — 17 men and 7 women — have received intravenous injections of arsphenamine and intramuscular injections of mercury salicylate. Thirteen have received 5 grams or more in weekly doses of .3 to .6 gram.

The following diagnoses were made: —

	Men.	Women.	Total.
General paresis, . . . . .	14	1	15
Cerebrospinal syphilis, . . . . .	1	—	1
Congenital syphilis, . . . . .	—	2	2
Constitutional inferiority, . . . . .	2	—	2
Dementia præcox, katatonic, . . . . .	—	1	1
Acute alcoholic hallucinosis, . . . . .	—	1	1
Involucional melancholia, . . . . .	—	1	1
Manic-depressive, depressed, . . . . .	—	1	1

Treatments have been given weekly of intravenous injections of arsphenamine in doses of .3 to .6 gram, and intramuscular injections of mercury salicylate, 1 grain, for ten consecutive weeks and again resumed. We have not had ptyalism in any instance from ten intramuscular injections of the salicylate. Check is kept on these cases by repeated Wassermann reaction, and the treatment is governed accordingly.

	CASES TREATED.		Transferred.	Remaining in Hospital.
	Died.	On Visit.		
General paresis, . . . . .	2	4	2	7
Cerebrospinal syphilis, . . . . .	—	—	1	—
Congenital syphilis, . . . . .	—	—	—	2

One of the patients on visit reported for a number of weeks, and, becoming worse, is being cared for at home. Two are employed and are of economic value to their families; 1 is improved

and able to care for himself. Of those remaining in the hospital, 5 have shown no improvement, and 2 are clinically improved and enjoy parole of the grounds.

The Wassermann test on spinal fluid has been positive in 13 cases of general paresis and cerebrospinal syphilis, and negative in 3 cases, but all cases have shown characteristic findings of neurosyphilis in fluid. The 3 cases with a negative Wassermann on spinal fluid presented other symptoms of general paresis, and had received treatment before coming to this institution.

Laboratory Report.

Following is a report of the laboratory work for the year. The following clinical work has been completed: —

Urine analyses, . . . . .	1,424
Cerebrospinal fluid examinations, . . . . .	72
Blood cultures, . . . . .	3
Blood counts, . . . . .	8
Autogenous vaccines, . . . . .	3
Gastric analyses, . . . . .	3
Examination of feces, . . . . .	3
Throat cultures, . . . . .	11
Post-mortem smears, . . . . .	70
Sputums, . . . . .	24
Smears: abscess, eye, ear, . . . . .	9
Smears: cervix and vagina, . . . . .	8
<hr/>	
Total, . . . . .	1,638

Histologic examinations have been made of 54 autopsied cases, and the interesting findings brought to the attention of the staff physicians.

Two cases of pernicious anæmia were worked up in detail, and an article prepared by a student interne, Mr. I. M. Webber, on “Psychoses associated with Pernicious Anæmia,” was presented at laboratory staff meeting, the histologic changes occurring in the organs being demonstrated by the projectoscope. Two papers have been written by the pathologist: “Influenza as a Factor in Initiating Psychoses and Precipitating Latent Psychoses,” and “Report of a Case of Tuberculosis of the Brain.”

**Danvers State Hospital.***Treatment of Syphilitic Conditions.*

During the year 97 patients have undergone treatment for syphilis. Twelve of these patients were not neurosyphilitic cases, but showed evidence of syphilis by the serum test, the others showing characteristic changes in the spinal fluid. The cases under treatment were classified, according to diagnosis, as follows: —

General paralysis,	. . . . .	70
Cerebrospinal syphilis,	. . . . .	8
Other forms of neurosyphilis,	. . . . .	7
Mental deficiency,	. . . . .	3
Congenital psychopathic inferiority,	. . . . .	1
Dementia præcox,	. . . . .	3
Manic-depressive,	. . . . .	1
Psychoneurosis,	. . . . .	1
Chronic alcoholic hallucinosis,	. . . . .	2
Epilepsy,	. . . . .	1

In the treatment of these cases there were given 584 administrations of arsenical preparations (salvarsan 100, diarsenol 121, arsphenamine 363), 590 intramuscular administrations of gray oil, besides potassium iodide internally. The Swift-Ellis treatment was administered in 5 cases.

The results obtained in the cases of syphilis by the nervous system are interesting, indicating the possibilities of improvement in such conditions by early and systematic treatment. Of the cases diagnosed as general paralysis, 30 per cent showed improvement or amelioration of symptoms sufficiently marked in most instances to constitute a remission in the sense of restoration of orderly conduct, judgment, and, to all appearance, insight. Deterioration, according to the ordinary course of the disease, occurred in 21 per cent of the cases, while 18 per cent showed no apparent change. Of the total cases of this type under treatment, 24 per cent died.

The results in 8 cases of cerebrospinal syphilis were: improved, 50 per cent; stationary, 25 per cent; died, 25 per cent.

In the whole series of cases (including those in which syphilis was a complication but no neurosyphilitic) the results were as follows: improved, 35 per cent; stationary, 28 per cent; deteriorated, 17 per cent; died, 20 per cent.



*Hydrotherapy.*

During the year 1,500 hydrotherapeutic baths were prescribed, 214 general and local massage treatments given, and 1,060 packs given for therapeutic purposes.

Intravenous saline infusions were administered in a number of cases showing toxic features, with fairly satisfactory results.

The continuous baths have been used freely in all cases where indicated, with excellent results.

*Epidemics.*

The hospital suffered less from the influenza epidemic than did the community. The disease first appeared in the hospital in the last weeks of the 1918 hospital year. The first cases occurred among employees. The first occurrence among the inmates took place a week or more later.

The total number of cases was 118, 35 of which occurred among the employees. Pneumonia, as a complication or sequel, developed in 27 cases, — 21 among patients, and 6 among employees.

The number of deaths from influenza was 3; from pneumonia complicating influenza, 19. Two of these cases were employees.

As soon as the disease was recognized the wards were quarantined. No visitors were allowed while the disease existed in the wards or the community. Leaves of absence for nurses and attendants were restricted. Every person showing indication of the disease was isolated in the open-air pavilions, and only those engaged in the immediate care of the patients were allowed to enter these wards. To prevent the spread of infection all clothing and utensils used in these wards were kept apart and sterilized after use. Vaccine was used, but the epidemic had been practically over before the vaccine could be obtained. No marked difference in symptoms was observed in vaccinated and unvaccinated cases. No vaccinated cases, however, developed pneumonia.

*Pathological Laboratory.*

During the greater part of the year the work of the laboratory was carried on by Dr. Shichi Uyematsu. Dr. Curtis E. Smith, a former pathologist at this hospital, was appointed clinical director and pathologist on Sept. 8, 1919.

Professor Noda of the University of Tokio, Japan, conducted special research work in neurosyphilis from August to September.



For a part of the past year there has been no pathologist in residence, and statistics are not so complete as they have been in previous years. The routine work, for the most part, has been carried on alone by Dr. Shichi Uyematsu of the University of Tokio, Japan, while he has been engaged in various researches in neuropathology.

We are sorry to state that the number of post-mortem examinations has fallen very low. There were 258 deaths and only 38 autopsies, representing only 6.76 per cent of the cases, as compared with the twenty years' average of 44.25 per cent. This, however, is perhaps not so remarkable when one considers that, due to exigencies of war, the hospital had only two or three physicians for 1,500 patients, and time was not to be had to see friends of all patients personally regarding permission for autopsy. It would seem wiser for the medical director, or the physician in charge of the case, to see friends of patients who are dangerously ill, and make special request for autopsy rather than try to obtain this permission by telegram or telephone messages. In this way many interesting cases are lost and forever remain obscure, where autopsy would reveal the pathology of their condition. Staff members should co-operate with the pathologist in this respect. There should be a better agreement between State institutions and relatives of patients in this respect, for after the State has paid for a patient's care for a number of years, it is only fair that autopsy should be allowed where desired.

This institution is remarkably free from epidemics. The influenza pandemic of the past year, which ravaged communities at large, passed over us very lightly. More cases were found among employees than among patients, so that our mortality as compared with communities was practically negligible. This was probably due to an early quarantine soon after the epidemic began. The cases of pneumococcus pneumonia have been very rare for such a class of patients, the pneumonia cases being for the most part terminal or broncho-pneumonia in feeble or senile patients. There are occasional cases of dysentery or gastrointestinal disturbance, but these have been kept strictly limited. No cases of typhoid have arisen, probably due to the routine method of giving typhoid vaccine to all patients as a means of prophylaxis.

During the next year the laboratory will be prepared to group pneumococci according to the method used at the laboratories of the Rockefeller Foundation, and serum will be given in suitable cases.

The long-established histological routine, of which this laboratory is justly proud, has been strictly followed, together with preservation of gross specimens that will render this laboratory a center for abundant material, rich in promise for research in general pathology or neuropathology. Dr. Uyematsu has done intensive work on the histological lesions of nerve and brain tissue, showing expert use of standard staining methods, and has added some new and recent ones.

Our filing and index system has been kept up to date. More photographs and microphotographs have been taken this year than ever before. More X-ray work has been done than previously. This has been carried out under the expert direction of Dr. Earl Cummings and our roentgenologist, Mr. Gilman W. Brown. More than 300 exposures have been made.

*Wassermann Test for Syphilis.*

A summary of the Wassermann test on the blood serum and spinal fluid is given in the following table. We may say that we found this test practically always in agreement with the clinical picture and the spinal fluid test made in the laboratory, *i.e.*, gold sol, cell count, albumin, globulin, etc.

	MALES.		FEMALES.		TOTALS.	
	Num-ber.	Per Cent.	Num-ber.	Per Cent.	Num-ber.	Per Cent.
Cases tested, . . . . .	445	—	430	—	878	—
Wassermann serum, positive, . . . .	68	15.0	27	6.2	95	10.0
Wassermann serum, negative, . . . .	312	70.1	356	82.8	668	85.0
Wassermann serum, doubtful, . . . .	12	2.6	3	.6	15	17.0
Wassermann spinal fluid, positive (agree), .	46	10.3	14	3.2	60	67.0
Wassermann spinal fluid, positive (disagree),	11	24.0	1	.2	12	13.0
Wassermann spinal fluid, negative (agree), .	25	56.1	7	16.2	32	47.0
Wassermann spinal fluid, negative (disagree),	8	17.9	7	16.2	15	17.0

The following papers by Dr. S. Uyematsu have been accepted for publication, and several others are in preparation: —

1. "A Typical Arteriosclerotic Insanity." Journal of Nervous and Mental Diseases.
2. "A Case of Myxœdematous Psychosis. Clinical and Pathological Report." Archives of Neurology and Psychiatry.

3. "A Case of Diffuse Cerebrospinal Sclerosis." *Journal of Nervous and Mental Diseases*.
4. "A Study of Peculiar Changes found in the Axones and Dendrites of Purkinje Cells." *Archives of Neurology and Psychiatry*.

### *Violent Deaths.*

Two deaths by suicide occurred during the year. One (identification No. 21029) was a woman of fifty-one years of age, subject to manic-depressive psychosis for years. She had been admitted three times to this hospital, and three or four times to other hospitals, as a result of recurring attacks. On Dec. 16, 1918, evading the observation of the nurse, she ended her life by hanging.

A man of forty-two years of age (identification No. 21299) committed suicide by hanging, May 30, 1919. This patient had been in the hospital from Dec. 18, 1918, to the time of his death, and to all appearance his condition was improving for several weeks prior to his death. On several occasions he had been permitted to go out on visits to the homes of relatives. Hallucinations of a disturbing nature seemed to be growing less vivid. At his own request, and as a measure of treatment, he was allowed to accompany a detail of working patients, and he showed increasing interest in useful occupation. On the afternoon of May 30 he slipped away, unobserved, from his associates, and effected an entrance to a tool shanty near the place where the detail was engaged in work. His body was found suspended by a rope from a beam in the shed a short time after he was missed from the detail.

### **Grafton State Hospital.**

#### *Special Medical Work.*

The following is the report of Dr. O. J. Raeder of the work done in the neurosyphilis clinic at the Worcester Department of this hospital: —

Dr. H. L. HORSMAN, *Acting Superintendent, Grafton State Hospital.*

I herewith submit the annual report of the neurosyphilis clinic of the Massachusetts Commission on Mental Diseases at the western branch, Summer Street, Worcester.

The neurosyphilis research of the Massachusetts Commission on Mental Diseases has been carried on systematically during the year. As before, cases suitable for treatment have been transferred, either from the Psychopathic Hospital in Boston or other institutions.



The same general method as practiced last year has been applied again as the most satisfactory for routine work in a large number of cases. This consists of an intensive and prolonged treatment with arsphenamine (salvarsan), mercury and iodide of potash. The arsphenamine used during the greater part of the year was of the product supplied by the State chemist. It has given satisfactory results, and the fact that it is supplied gratis has made it a benefit to all who were in need of this effectual drug. The intravenous route has been commonly used as the most effectual.

There were 63 cases of neurosyphilis and other syphilis (1 case of secondary) treated. Of these, 28 cases were on treatment at the time of the last report, Dec. 1, 1918.

TABLE I. — *Cases treated.*

	1916-17.	1917-18.	1918-19.
Paresis, . . . . .	48	40	40
Cerebrospinal syphilis, . . . . .	11	6	7
Tabes dorsalis, . . . . .	3	5	5
Secondary syphilis, . . . . .	2	1	1
Other syphilis, . . . . .	—	5	10

In the above table the various forms of neurosyphilis coming under observation are enumerated. The parietic type was by far the most common, furnishing 63.3 per cent; the cerebrospinal type supplied 7 cases, or 11.1 per cent; of the tabetic type there were 5 cases, or 7.9 per cent. Other syphilis embodies mostly various nervous and mental states with syphilis in which, for the most part, it was difficult to determine the degree of cause for the mental disease, or whether the syphilis was not simply concomitant. Most of these cases are epileptics with syphilis. Certainly all syphilis should be treated if there is any chance of improving the patient's condition thereby.

TABLE II. — *Treatments given.*

	1916-17.	1917-18.	1918-19.
Intravenous, . . . . .	763	1,070	1,276
Intraventricular, . . . . .	19	4	1
Subdural, . . . . .	37	—	—
Intraspinal, . . . . .	38	11	—
Intramuscular (mercury), . . . . .	—	411	456

In Table II the number of treatments given has been divided to show the methods of administration. The figures of the previous two years have been given for comparison.

TABLE III. — *Duration of Treatment.*

1 month or less,	.	.	.	.	.	.	.	.	.	.	6
1 month to 6 months,	.	.	.	.	.	.	.	.	.	.	16
6 to 9 months,	.	.	.	.	.	.	.	.	.	.	7
9 to 12 months,	.	.	.	.	.	.	.	.	.	.	5
1 year to 1½ years,	.	.	.	.	.	.	.	.	.	.	9
1½ to 2 years,	.	.	.	.	.	.	.	.	.	.	7
2 to 3 years,	.	.	.	.	.	.	.	.	.	.	14

Here (Table III) is shown the duration of treatment of the cases under observation at present. It should be stated that during the course of these treatments periods of rest are given at definite intervals and the drugs are alternated.

TABLE IV. — *Number of Treatments.*

1 year to 10 years,	.	.	.	.	.	.	.	.	.	.	19
11 to 15 years,	.	.	.	.	.	.	.	.	.	.	6
16 to 25 years,	.	.	.	.	.	.	.	.	.	.	17
26 to 50 years,	.	.	.	.	.	.	.	.	.	.	21
51 to 75 years,	.	.	.	.	.	.	.	.	.	.	—
Total number of patients,	.	.	.	.	.	.	.	.	.	.	63

TABLE V. — *Amounts of Arsphenamine given.*

1 gram or less,	.	.	.	.	.	.	.	.	.	.	5
1.1 to 10 grams,	.	.	.	.	.	.	.	.	.	.	43
10.1 to 20 grams,	.	.	.	.	.	.	.	.	.	.	14
20.1 to 30 grams,	.	.	.	.	.	.	.	.	.	.	—
30.1 to 40 grams,	.	.	.	.	.	.	.	.	.	.	—
Total number of patients,	.	.	.	.	.	.	.	.	.	.	62

TABLE VI. — *Amount of Mercury given.*

5 grains or less,	.	.	.	.	.	.	.	.	.	.	22
6 to 15 grains,	.	.	.	.	.	.	.	.	.	.	27
16 to 25 grains,	.	.	.	.	.	.	.	.	.	.	6
26 to 30 grains,	.	.	.	.	.	.	.	.	.	.	—
Total number of patients,	.	.	.	.	.	.	.	.	.	.	55

The number of treatments and amounts of drugs administered are shown in Tables IV, V and VI. Mercury salicylate suspended in neutral oil was given in deep muscular injections in 1 grain dosage.



TABLE VII. — *Results of Treatment.*

	Number.	Per Cent.
Recovered (secondary lues), . . . . .	1	1.6
Improved, . . . . .	20	31.7
Stationary, . . . . .	31	49.2
Worse, . . . . .	5	7.9
Died, . . . . .	5	7.9
Unknown (eloped, etc.), . . . . .	1	1.6
Total number of patients, . . . . .	63	—

The result of treatment is shown in Table VII. Among the 31.7 per cent improved were several cases that showed most gratifying results. One case of the cerebrospinal type, who has been discharged to an out-of-State clinic, has recovered clinically, though the serology has not been entirely negativized.

Two cases of the parietic type have been discharged, both capable of self-support, one to the out-patient department of the Psychopathic Hospital in Boston, and the other eloped.

*Summary.*

Cases treated during the year, . . . . .	63
Cases showing noteworthy improvement (31.7 per cent), . . . . .	20
Cases held over from last year, . . . . .	28
New cases added during the year, . . . . .	35
Cases discharged improved, . . . . .	6
Case discharged recovered, . . . . .	1

A report of the work of the clinic was made by Dr. George K. Butterfield in a paper presented at the Massachusetts State Hospital Assistants' Meeting held at North Grafton October 9.

The undersigned included the work of this clinic in a paper on "Neurosyphilis" at the annual meeting of the American Medico-Psychological Association at Philadelphia.

The assistance and co-operation of Dr. Butterfield in the work of the clinic has been material. Thanks are due to Acting Superintendent Dr. H. L. Horsman and the staff for encouragement and interest shown.

Respectfully submitted,

O. J. RAEDER,

*Assistant Pathologist,*

*Massachusetts Commission on Mental Diseases.*

*Pathologist's Report.**To the Superintendent of the Grafton State Hospital.*

The pathological work of the Grafton State Hospital has been continued during the past year by the undersigned as assistant pathologist to the Commission on Mental Diseases. Assistance has been rendered to the laboratory by appointing from time to time technical aid for the care of tissues from autopsies and for the routine laboratory tests.

The autopsy service of the hospital was slightly greater than last year, during which time 78 complete examinations were made, — 51 per cent of the deaths. Twenty-five post mortems were done in October, 1918, when the influenza epidemic was at its height, a remarkable achievement, considering the many duties imposed on the staff at this time. The records have been typewritten and bound in volumes so that complete accounts of autopsies done are available since the pathological service to the Commission was instituted, — July, 1914.

More than a score of pictures have been made of the more interesting brains, and the feeble-minded material has been reviewed, with especial attention to anomalies, in a paper read at the New England Society, of Psychiatry at Medfield State Hospital, Sept. 19, 1919, by Dr. O. J. Raeder, who is also assistant pathologist to the Commission on Mental Diseases.

Of these 78 autopsies, two-thirds were under fifty years of age, and the majority of the 78 died of pulmonary infections (pneumonia and tuberculosis); in fact, 62 per cent died of pulmonary disease, tuberculosis occurring in 37 per cent.

There have been some especially valuable cases in this series besides the imbeciles and idiots; one was a man of thirty-two who had epileptic convulsions, and on whom the diagnosis of brain tumor was confirmed at autopsy. This tumor was of great size and produced much intracranial pressure. Photographs have been made of this, but the most striking anomalies and pathological lesions have been in the imbecile group; for example, one shows developmental defect in the cerebellum, as a result of which the patient never walked freely — always had to be assisted. Another showed some compensatory changes in one cerebral hemisphere and its opposite cerebellar hemisphere dating from a cerebral poliomyelitis in childhood. Two cases have had local dilatations of the central canal in the spinal cord. The brain of one Armenian presented a curiosity in the formation, which will be especially studied (proportion of height to length unusual).

It is again recommended that a resident pathologist would be of great advantage to the hospital, and that a well-equipped laboratory and mortuary be provided with proper cooling facilities.

A storeroom is invaluable so that the specimens can be readily accessible.

The experience in other institutions continues to show that each laboratory unit should have at least three persons on its staff, namely, a pathologist, technician and secretary.

The clinical staff has been co-operative in every way, and under special difficulties due to a general unrest at this time.

MYRTELLE M. CANAVAN.

#### **Monson State Hospital.**

The following is a report of the clinical pathology done at the Monson State Hospital for twelve months:—

Urine examinations, . . . . .	206
Blood examinations, . . . . .	8
Cultures, . . . . .	8
Sputum examinations, . . . . .	11
Vaccinations, . . . . .	175
Inoculations of typhoid prophylactic, . . . . .	296
Wassermann tests (Boston), . . . . .	132
Autopsies, . . . . .	2
Vaccines prepared, . . . . .	2

#### **Massachusetts School for the Feeble-minded.**

At the time of the epidemic of influenza at Waverley, in September and October, 1918, no cases appeared at Templeton Colony. Early in February of the present year the disease suddenly appeared in a most virulent form at the colony, and of the 298 patients and 49 employees present, 229 patients and 16 employees, or 70 per cent of the total number, were attacked. Dr. Raymond and a group of nurses from Waverley turned the entire colony into a hospital, and for seven weeks gave the sick people unremitting care and attention. Fifteen of the patients died, and many were dangerously ill for a long time. It was fortunate that the epidemic at the colony did not coincide with that at the parent school at Waverley. No words can do justice to the devotion and forgetfulness of self shown by Dr. Raymond and our splendid nurses.

At Waverley there were 7 cases of clinical diphtheria scattered through the year, with 1 death, and 10 cases with positive cultures but with no clinical symptoms. There were two outbreaks of chicken pox, with 12 cases. There were 4 cases of scarlet fever in December, 1918, 2 in June and 1 in November, with 1 death. There was 1 case of measles. The general health of inmates and employees has been excellent.



**Wrentham State School.**

The general health of the population has been good during the year. There have been no epidemics. Two sporadic cases of scarlet fever occurred. Every child upon admission is given a thorough physical examination and vaccinated against smallpox and typhoid fever. The resident dentist then gives the necessary care to the teeth, and in doing so makes frequent use of the X-ray machine, and in this way discovers and clears up obscure dental troubles which have caused much ill health and suffering. Diseased tonsils and enlarged adenoids are removed. The oculist makes examination of all doubtful eyes, and glasses are prescribed whenever necessary. In this way the children, soon after admission, are placed in as good physical condition as possible by the correction of remedial physical defects. The relieving of physical handicaps, the daily medical supervision, the forming of regular habits of living, together with the bountiful supply of wholesome food provided, and plenty of exercise in the open air, make for the general physical well-being of the children, and place them in the proper physical condition for making the best use of the educational facilities provided.

**VI. CONTRIBUTIONS OF THE MASSACHUSETTS COMMISSION ON MENTAL DISEASES, 1919.**

Whole  
No.

258. 1917.78. "Social Service in the State Hospital." George M. Kline, M.D. American Journal of Insanity, Vol. LXXIII, No. 4, April, 1917.
259. 1917.79. "The Behavior of the Wassermann Reaction in Cases receiving Mixed Treatment." Harry C. Solomon, M.D. Medicine and Surgery, Vol. I, No. 3, May, 1917.
260. 1917.80. "Occupational and Industrial Therapy. How can This Important Branch of Treatment of our Mentally Ill be extended and improved?" L. Vernon Briggs, M.D. American Journal of Insanity, Vol. LXXIV, No. 3, January, 1918.
261. 1918.1. "The Psychopathic Hospital Ideal." Lawson G. Lowrey, M.D. Medical Record, March 23, 1918.
262. 1918.2. "The Neurosis of the Housewife." Abraham Myerson, M.D. Medicine and Surgery, Vol. II, No. 2, March, 1918.
263. 1918.3. "The Diagnosis of Acute Psychotic Conditions." Donald Gregg, M.D. Medicine and Surgery, Vol. II, March, 1918.

Whole  
No.

264. 1918.4. "Shell-shock Analogues: Neuroses in Civil Life having a Sudden or Critical Origin." Mary C. Jarrett, A.B. *Medicine and Surgery*, Vol. II, No. 2, March, 1918.
265. 1918.5. "The Value of Out-patient Work among the Insane." A. Warren Stearns, M.D. *American Journal of Insanity*, Vol. LXXIV, No. 4, April, 1918.
266. 1918.6. "Point Scale Examinations in the High-grade Feeble-minded and the Insane." Josephine N. Curtis, Ph.D. *The Journal of Abnormal Psychology*, Vol. XIII, No. 2, June, 1918.
267. 1918.7. "The Insane Psychoneurotic." Lawson G. Lowrey, M.D. *American Journal of Insanity*, Vol. LXXV, No. 1, July, 1918.
268. 1918.8. "The Shattuck Lecture before the Massachusetts Medical Society. Shell-shock and After." E. E. Southard, M.D. *Boston Medical and Surgical Journal*, Vol. CLXXIX, No. 3, July 18, 1918, pp. 73-93.
269. 1918.9. "The Circulation of Arsenic in the Cerebrospinal Fluid." John B. Rieger, M.D., and Harry C. Solomon, M.D. *Journal of the American Medical Association*, Vol. LXXI, No. 1, July, 1918, pp. 15-17.
270. 1918.10. "Mental Hygiene and Social Work: Notes on a Course in Social Psychiatry for Social Workers." E. E. Southard, M.D. *Mental Hygiene*, Vol. II, No. 3, July, 1918, pp. 388-406.
271. 1918.11. "Psychiatric Social Work." Mary C. Jarrett, A.B. *The National Committee for Mental Hygiene*, Reprint 29, 1918.
272. 1918.12. *The Training School of Psychiatric Social Work at Smith College:—*
  - I. "Educational Significance of the Course." W. A. Neilson, LL.D.
  - II. "A Lay Reaction to Psychiatry." E. E. Southard, M.D.
  - III. "The Course in Social Psychiatry." Edith R. Spaulding, M.D.
  - IV. "A Scientific Basis for Training Social Workers." F. Stuart Chapin, Ph.D.
  - V. "An Emergency Course in a New Branch of Social Work." Mary C. Jarrett, A.B.

*Mental Hygiene*, Vol. II, No. 4, October, 1918, pp. 582-594.
273. 1918.13. "Suggestions in the Nomenclature of the Feeble-mindednesses." E. E. Southard, M.D. *Mental Hygiene*, Vol. II, No. 4, October, 1918, pp. 605-610.
274. 1918.14. "The Emphatic Index in the Diagnosis of Mental Diseases." E. E. Southard, M.D. *The Journal of Abnormal Psychology*, Vol. XIII, No. 4, October, 1918, p. 199.
275. 1918.15. "The Psychiatric Social Worker." Abraham Myerson, M.D. *The Journal of Abnormal Psychology*, Vol. XIII, No. 4, October, 1918, p. 225.



Whole  
No.

276. 1918.16. "Insanity versus Mental Diseases: the Duty of the General Practitioner in Psychiatric Diagnosis." E. E. Southard, M.D. The Journal of the American Medical Association, Vol. LXXI, No. 16, October, 1918, pp. 1259-1264.
277. 1918.17. "The Kingdom of Evil: Advantages of an Orderly Approach in Social Case Analysis." E. E. Southard, M.D. Proceedings of the National Conference of Social Work, 1918, Chicago, Ill., Pamphlet 179.
278. 1919.1. "With the British Expeditionary Force." John I. Wiseman.
279. 1919.2. "The Influenza Epidemic at the Foxborough State Hospital, 1918." Ransom H. Sartwell.
280. 1919.3. "Economic Problems presented by One Hundred and Fifty Cases of Dementia Præcox of Long Standing — State *versus* Home Care." Marion E. Kenworthy.
281. 1919.4. "Problems of Active Committed Cases that prove to be Not Insane." Marion E. Kenworthy.
282. 1919.5. "Neuropsychiatry in Army Camps." George E. McPherson. Boston Medical and Surgical Journal, Vol. CLXXXI, No. 21, pp. 606-611, Nov. 20, 1919.
283. 1919.6. "A Study of the Kidney Function in Senility." W. C. Rappleye. Boston Medical and Surgical Journal, Vol. CLXXVIII, No. 6, pp. 191-194, Feb. 7, 1918.
284. 1919.7. "A Note on Experimental Scurvy in the Guinea Pig." W. C. Rappleye. Boston Medical and Surgical Journal, Vol. CLXXIX, No. 3, pp. 98, 99, July 18, 1918.
285. 1919.8. "A Simple Application of the Volhard Principle for Blood Plasma Chlorides." W. C. Rappleye. Journal of Biological Chemistry, Vol. XXXV, No. 3, September, 1918.
286. 1919.9. "The Kidney Function in One Hundred Cases of Hypertension." W. C. Rappleye. Boston Medical and Surgical Journal, Vol. CLXXIX, No. 14, pp. 441-447, Oct. 3, 1918.
287. 1919.10. "An Undeveloped Opportunity for the Study of the Prognosis of Chronic Diseases." W. C. Rappleye. Medical Record, Vol. XCIV, No. 16, Oct. 19, 1918.
288. 1919.11. "The Blood Urea Nitrogen in Catatonia." W. C. Rappleye. Journal of Nervous and Mental Disease, Vol. XLIX, No. 2, February, 1919.
289. 1919.12. "Notes on the Effect of Intravenous Diarsenol." W. C. Rappleye. Journal of Laboratory and Clinical Medicine, Vol. IV, No. 10, July, 1919, p. 630.
290. 1919.13. "Blood Plasma Chlorides *versus* Renal Function." W. C. Rappleye. Boston Medical and Surgical Journal, Vol. CLXXXII, No. 4, p. 89, Jan. 22, 1920.

Whole  
No.

291. 1919.14. "Correlation of Data in Cases seen at the Psychopathic Department and Foxborough State Hospital." Lawson G. Lowrey.

NOTE. — Nos. 278 (1919.1) to 291 (1919.14) comprise papers read at the opening of the laboratory at the Foxborough State Hospital, June 2, 1919.

292. 1919.15. "Environmental Origin of Mental Disease in Certain Families." L. Vernon Briggs. *American Journal of Insanity*, Vol. LXXIII, No. 2, October, 1916.
293. 1919.16. "Degenerative Chorea (Huntington's Type) with the Serology of General Paresis." Lawson Gentry Lowrey and Curtis Everett Smith. *American Journal of Syphilis*, Vol. II, No. 3, July, 1918.
294. 1919.17. "The Genera in Certain Great Groups or Orders of Mental Disease." E. E. Southard. *Archives of Neurology and Psychiatry*, Vol. I, pp. 95-112, January, 1919.
295. 1919.18. "Recent American Classifications of Mental Diseases." E. E. Southard. *American Journal of Insanity*, Vol. LXXV, No. 3, January, 1919.
296. 1919.19. "An Analysis of the Accuracy of Psychopathic Hospital Diagnoses." Lawson Gentry Lowrey. *American Journal of Insanity*, Vol. LXXV, No. 3, January, 1919.
297. 1919.20. "Early Neurosyphilis Asymptomatica with Report of Observations and Cases." Joseph Victor Klauder. *American Journal of Syphilis*, Vol. III, No. 4, October, 1919.
298. 1919.21. "Report of a Case of Bilateral Gumma of the Epididymis in a Paretic." Joseph V. Klauder. *Urologic and Cutaneous Review*, Vol. XXIII, No. 8, 1919.

## VII. SUMMARY.

I. Notwithstanding the after-war, and after-influenza depressions, the pathological service has substantially progressed.

II. The progress of the pathological service may be marked out in the following steps: —

(a) Appointment of a pathologist in 1909, with general duties and the duties of planning the scientific side of the Psychopathic Hospital building.

(b) Appointment of the pathologist as director of the Psychopathic Hospital, functioning as a sort of research institute under the Commission, with advanced and extension training courses for State hospital physicians (1912).

(c) Appointment of an assistant pathologist in 1914, with duties of investigations of certain cases of sudden death and accident, and the performance of autopsies in institutions either permanently or temporarily without pathologists; consolidation of work by the appointment of a clerk and a technician.

(d) Appointment in 1915 of a special investigator of the systematic treatment in neurosyphilis.

(e) The extension of the work of the pathological service to the western district of the State (with appointment of another assistant pathologist), and the opening of special wards at the Grafton State Hospital for neurosyphilis treatment in 1916.

(f) Legislative authorization in 1917 for State-wide extension of Psychopathic Hospital facilities.

(g) Consolidation of the neurosyphilis service by the appointment of an assistant pathologist functioning as pathologist to the main department of the Boston State Hospital.

(h) The publication of a new quarterly bulletin of the Commission, containing selected medical and scientific studies by the officers of the Commission and of the institutions under its control.

(i) The establishment of a definitely recognized research plant in the Massachusetts State Psychiatric Institute.

(j) The transfer of the pathologist to the directorate of this institute frees him for more extensive literary pursuits.

(k) These pursuits will show fruits in the appearance of the book on "Shell Shock and Other Psychiatric Problems;" one on "The Anatomy of Mental Disease," a book on the gross pathology of the nervous system based on the 1,000 autopsies of the Commission's pathological service, 1914 to 1919; and a book on psychiatric social work, which is being pushed forward for early publication in 1920.

III. The routine of the pathological service of the Commission included 213 autopsies, 77 of which were in cases of sudden death.

IV. Seventy-seven sudden deaths were reported to the Commission, of which 33 resulted in autopsy (21 by the pathological service, and 12 by medical examiners or otherwise).

V. There is still a tendency to a relative decrease in severe accidents (208 in 1919, as against 225 in 1916).



VI. Two hundred and fifty-nine visits have been made to the institutions in the interest of investigations, diagnosis and treatment.

VII. Progress in institutions taken separately is described briefly in Section V of this report.

Respectfully submitted,

E. E. SOUTHARD, M.D.,

*Director of the Massachusetts State Psychiatric Institute.*

#### REPORT OF COMMITTEE ON TRAINING SCHOOLS.

Dr. GEORGE M. KLINE, *Director, Massachusetts Commission on Mental Diseases, State House, Boston, Mass.*

DEAR DOCTOR:—The Committee on Training Schools respectfully submits the following report:—

The difficulty encountered during the previous year in obtaining a sufficient number of pupil nurses for the training schools has continued through the year 1919. Difficulty was likewise experienced in securing the services of sufficient teachers for instruction. Despite these obstacles the training schools were able to continue their courses and maintain standards set several years ago.

In June the usual uniform examinations were held. There were 110 juniors who came up for examination, and of these, 102 passed successfully; 76 seniors took the examination, and 69 passed successfully. The total number of nurses taking the examination as compared to the year before was only reduced by 9.

It was found impossible to revive the courses for men attendants.

The usual number of meetings was held during the year. Some minor changes were made in the curriculum, but, on the whole, it was felt wise not to make any particular changes on account of the difficulty in getting a sufficient number of pupil nurses.

Arrangements were made for affiliation with the State Infirmary at Tewksbury. This provides an opportunity for all or any of the hospitals under the Commission to send their nurses to Tewksbury for affiliated purposes.

In this connection it is interesting to note that a number of smaller general hospitals made overtures for the purpose of affiliating with the insane hospitals, but, unfortunately, they did not fulfill our requirements as to the number of hospital beds. All this seems to indicate that the smaller hospitals in the State are suffering from a shortage of pupil nurses. There is a general shortage of nurses, due, no doubt, to conditions prevailing during and subsequent to the war, and from our observation we are unable to say that the conditions in this respect will be materially better in the future. The committee feels that the whole problem of nursing care is one that should be given serious consideration, as it relates to the care of the patient in both the hospital and the community.

Respectfully submitted,

ELISHA H. COHOON,  
JOHN A. HOUSTON,  
JAMES V. MAY,  
HARLAN L. PAINE,

*Committee.*

Nov. 30, 1919.

#### REPORT OF DIRECTOR OF SOCIAL WORK.

Following is the second report of the director of social work, and the first to cover a full year's work, from Nov. 30, 1918, to Nov. 30, 1919.

The duties of the director of social work, originally appointed June, 1918, are as follows: —

1. To co-ordinate and develop the various phases of State hospital social service on a sound basis.

2. General supervision of the social service departments of the various institutions under the Department of Mental Diseases.

3. Correlation of State hospital social work with that of the various community agencies.

4. Educational work in the field of mental hygiene in co-operation with the Massachusetts Psychiatric Institute and other agencies.



## GENERAL.

Because of the comparative newness of State hospital social service a brief statement as to the purpose and aims of such work is herewith given.

Social factors of mental disorder are becoming increasingly important in the study of mental diseases; therefore the contribution of social knowledge to the hospital is highly important.

As the unit of interest is the patient, the development of this interest includes the following points: —

1. To study the social welfare of hospital patients with a view to reconstruction work. The social service aims to deal as intelligently and constructively with the patient in his social setting as the medical service deals with him in the hospital.

2. To study factors that have contributed toward a mental breakdown during patient's community life, and to contribute such knowledge to the proper sources.

3. To contribute to community agencies such information, and to render to them such assistance, as will aid them in caring for mental patients referred to them for community care.

4. To aid in the simpler forms of preventive work in the field of mental hygiene, through case work and other educational methods.

Social needs of patients include —

Study of problems associated with maladjustments in private, civil or industrial life.

Special problems of industry, occupation and recreation.

Environmental conditions, moral and physical.

Legal difficulties,— domestic troubles, etc.

In order to aid the hospitals in developing this work on a uniform basis an outline was prepared and submitted to the various superintendents, who have quite generally adopted it for use in their hospitals. The outline is as follows: —

1. *Systematic Home Visiting or After-Care Work.* — All patients who leave the hospital to fall automatically into visiting list unless discharged outright by hospital authorities. Frequent visits to special patients; quarterly visits to boarding patients.

2. *History Work.* — Social and medical histories to be taken by social service (referred cases).

3. *Investigations.* — (a) Home conditions at time of admission to hospital or prior to visit period or discharge.

(b) Complaints entered at hospital relative to welfare of patient, in hospital or community.

(c) Applications for boarding patients.

(d) Criminal cases sent by courts to hospital for observation.

4. *Social Case Work*. — Intensive or slight service on referred or selected cases.

5. Regular attendance at the out-patient clinics as part of the after-care and community work.

As the schools for the feeble-minded necessarily differ somewhat from the State hospitals in purpose and function, a little different outline was prepared and submitted to the superintendents of the schools. This outline includes many of the above divisions, but relates particularly to the supervision work connected with these institutions.

#### *Hospital and Social Workers.*

Boston State Hospital, Miss M. L. Donahoe, appointed July, 1917.

Boston State Hospital, Miss Alice Baker, appointed March, 1919.

Psychopathic Department, Miss H. L. Myrick, appointed November, 1918.

Psychopathic Department, Miss E. S. Moore, appointed March, 1919.

Psychopathic Department, Miss Elizabeth Wardner, appointed April, 1919.

Psychopathic Department, Miss E. S. Bryant, appointed October, 1919.

Psychopathic Department, Miss Dorothy Q. Hale, follow-up worker, appointed October, 1918.

Psychopathic Department, Miss E. H. Saladine, syphilis worker, appointed October, 1918.

Danvers State Hospital, Miss B. C. Reynolds, appointed September, 1918.

Foxborough State Hospital, Miss E. L. Moseley, appointed January, 1919.

Medfield State Hospital, Miss C. V. Lynch, appointed July, 1916.

Northampton State Hospital, Miss L. S. Gray, appointed March, 1919.

Taunton State Hospital, Miss E. C. Cook, appointed October, 1918.

Worcester State Hospital, Miss J. A. Harrington, appointed October, 1917.

Westborough State Hospital, Mrs. C. A. Ricketson, appointed February, 1916.

Wrentham State School, Mrs. J. D. Lillyman, appointed March, 1918.

Five social workers have resigned during the year, several of whom have entered fields of service outside the State.

## CONFERENCE WORK.

A unique feature of this department is that of the conferences held every three weeks at the State House. The hospital social workers make up the group, including students and the social worker from the New Hampshire State Hospital. At these gatherings, policies, case and record work are discussed. Occasionally a physician or an executive from some outside agency addresses the group. The conference work is educational, and aids very materially in developing social technique and in standardizing the work throughout the State. Following is the list of topics and leaders for the year: —

1. Indexing and Filing; Principles of Home Visiting, . . . . . Director of Social Work.
2. Preventive Work (Feeble-minded), Miss Amy Woods, League for Preventive Work.
3. Informal Address, . . . . . Dr. Geo. M. Kline, Commissioner.
4. Registration Bureau, Confidential Exchange of Information, . . . Miss Laura G. Woodbury.
5. The Boarding-out System, . . . Dr. L. F. Wentworth, Assistant Commissioner.
6. Principles and Methods of Investigation, . . . . . Director of Social Work.
7. After-care of Soldier Patients, . . . Mr. Arthur Sullivan, Metropolitan Division, American Red Cross.
8. The Initial Sheet for Social Records, Director of Social Work.
9. General Discussion, . . . . . Director of Social Work.
10. Social Case Work, . . . . . Conference at Taunton State Hospital, address by Dr. Arthur V. Goss, Superintendent.
11. Outline for Social History, . . . Director of Social Work.
12. Analysis of Social Troubles, . . . Dr. E. E. Southard, Director, Psychiatric Institute.
13. Statistics, . . . . . Dr. James V. May, Superintendent, Boston State Hospital.

The attendance at these conferences has been excellent, averaging ten members per meeting. The interest and enthusiasm seem to be increasing, while the attendance is growing larger.



Special attention has been given to the development of social records, as this appeared to be one of the obvious needs. Conference discussions, comparison of records and office interviews have aided in developing the social record work, although much yet remains to be accomplished in record writing. A filing system was also suggested, and is now in general use in most hospitals. Guides or outlines for social case work, social histories and investigations have been prepared and used experimentally. These guides will doubtless aid in developing records and placing them on a uniform basis.

General supervision is maintained over the various hospital social service departments, although in reality the work is conducted on a co-operative basis. Twenty-four days have been spent in hospital visiting, and eighteen interviews or conferences with superintendents have been held in regard to their social service work. Forty-six official visits of social workers have been made to the central office for the purpose of studying social case work and record writing.

A special phase of social work connected with soldier patients was mentioned in last year's report. After several consultations with Red Cross officials of the New England and metropolitan divisions, definite arrangements were completed looking toward adequate care of soldier patients arranged on a co-operative basis. The plan provides that all matters pertaining to war risk insurance, compensation, family relief work, etc., are to be considered by the Red Cross. Intensive social case work on special cases is to be jointly considered by hospital social service and Red Cross, the initiative being taken by social workers in all matters having a direct bearing upon the mental health of the patient. Supervision during the visit period will be maintained by the hospital as in civil cases.

Another feature of State hospital social work, as yet quite undeveloped, is that of correlating such work with the various social agencies in the community. Not only is this valuable from an educational viewpoint but it is quite important in securing intelligent care for mental patients who have been referred to special agencies for care or guidance. Early in the beginning of the year the secretary of the Boston Associated Charities was approached on this subject, and a tentative plan was made looking toward joint service on cases commonly known to both agencies. Nine other agencies have been approached through this department with the same end in view. Good work of this

kind is being accomplished by our social workers who come frequently into touch with these agencies through case work.

As an account of the detailed work of the various departments will doubtless appear in the annual reports of the hospitals, special features only need be mentioned in this report. *Student training* in the hospital appears to be gaining in favor and in importance. The bulk of this work is done at present by the Psychopathic Department for obvious reasons, although three State hospitals have taken on one or more students. An increased demand for psychiatric social workers will necessitate hospital training and experience.

A phase of the boarding-out system which is being advocated and which is potentially constructive is that of securing suitable homes and employment for selected patients who are placed in the community under special supervision. Occasional visits to the hospital will extend the visit term and afford a long period of supervision; the purpose of this work is to enable special patients to conform gradually to environmental conditions which are studied and arranged to suit their particular needs, with the hope that many may eventually become economically and socially fit for community life.

A general plan for *educational* and *research work* has been outlined with Dr. E. E. Southard of the Massachusetts Psychiatric Institute, which includes lectures, conferences of mixed groups, publications, etc. A series of lectures on the classification of social disorders has already been started by Dr. Southard at the regular conference gatherings.

An occasional situation arises in the Department of Mental Diseases which requires a social investigation. Such cases are usually referred to social service. During the year ten investigations have been made for the Department or for State hospitals (special cases).

The following conferences have been attended during the year by the director of social work: —

Conference of State Charities, Springfield, Dec. 4, 5 and 6, 1918.

Conference of Mental Hygiene, Boston, January, 1919.

Child Welfare Conference, Boston, May 14, 15 and 16, 1919.

National Conference of Social Work, Atlantic City, June 2 to 8, 1919.

American Medico-Psychological Association, Philadelphia, June 18 to 20, 1919.

Conference of American Institute of Criminal Law and Criminology, Boston, Sept. 2 and 3, 1919.

State Conference of Social Work, Boston, Oct. 29, 30 and 31, 1919.



Reports of the various conferences have been submitted to the Commissioner of the Department of Mental Diseases.

Office days, usually two and one-half days per week, are filled with miscellaneous tasks. Discussion of case and record work with hospital workers is an important feature of office day work; correspondence and interviews with interested persons; and various other things which naturally fall into the routine of office work. One hundred and thirty-two and one-half days have been spent at the office, the remaining days having been spent in hospital visiting and other outside duties.

A classified list of soldier cases (some 1,200 plus) which was received by the Department from Federal sources was arranged and submitted to the New England division of the Red Cross for special consideration. As no written report has as yet been received, definite information cannot be given as to the disposition of this list. Information received from a former official of the society was to the effect that no particular social problem appeared to be associated with this group. Definite cases will, however, be considered by the Red Cross as occasion demands.

A survey of State hospitals, started in the fall of 1918, was completed in August, 1919. The general situation appeared to be somewhat as follows: In three hospitals social service appeared to be on a good basis; the social work in these institutions was practical and fairly well adapted to the needs of the hospital. Several hospitals were engaged in some form of after-care and community work which was valuable but was not necessarily social work, inasmuch as little or no intensive social case work was accomplished or possible under the conditions which then obtained. Good after-care work and miscellaneous services appeared to form the bulk of work which was commonly known as "social service." Three institutions were engaged in excellent out-patient clinic work.

Social technique and standards were generally lacking; records or reports were meager and lacking in significance. These and other factors indicated the need of standardization, interpretation and development. The assets, however, far outnumbered the liabilities. Community connections, in many instances, had been well made. Although there were various conceptions of social service, the *spirit* of such service was active and wholesome; add to this the *desire* for good social work and the co-operative attitude and one finds a good foundation for the effective development of State hospital social service.

## SUMMARY.

Because of the nature of social service in its dealings with human beings and their relationships, it is somewhat difficult to state the exact results of a twelve months' period. The externals of the work may be said to be as follows: —

(a) The study and experimentation of methods for the purpose of building up a practical social service department in the State hospital.

(b) The establishment of regular conferences with lectures or instructors, for the purpose of studying the principle, policies and technique of psychiatric social service, and acquiring a working knowledge of mental disorders and their accompanying social factors.

(c) The correlation, on a small scale, of hospital social service and general social work in the community.

(d) General supervision of State hospital social work, conducted on a co-operative basis.

A survey of the year's work impresses one with the vast amount of work yet to be done before our State hospital patients can be adequately considered by the social service. One can but be impressed with the spirit of helpfulness and good will on the part of the superintendents who are actively interested in the development of social work, and who contribute generously to its upbuilding. Upon them the responsibility for the welfare of their patients rests heavily, and it is to them we must look for new developments in the field of mental hygiene which is becoming so increasingly important in the public mind.

The loyalty and enthusiastic service rendered by the social workers have helped very materially in placing Massachusetts on its present basis in the field of State hospital social work.

## RECOMMENDATIONS.

In order to develop and extend the usefulness of social service the following recommendations are submitted for consideration: —

1. Increased appropriations for additional workers in institutions, and for the purpose of conducting special studies and research work.

2. The introduction of a routine system for the intake of typical social cases by the social service departments of the

various hospitals, thereby making it possible for special cases to receive adequate consideration.

3. Adequate clerical assistance for the various departments.

4. Provisions for resident hospital social workers in some of the larger institutions, who shall devote their time to new admissions and selected cases, with a view to early social treatment. Such workers could bridge the gap which now exists between hospital education or treatment and community life, and could be instrumental in extending the same into the community when necessary.

5. Inasmuch as the status of the social worker in the State institution has not as yet been uniformly established in Massachusetts, it is recommended and hoped that a clearly defined policy as to this department may be considered at an early date.

Respectfully submitted,

HANNAH CURTIS,

*Director of Social Work.*

REPORT OF OUT-PATIENT DEPARTMENTS FOR THE YEAR ENDING NOV. 30, 1919.

	Worcester Hospital.	Taunton Hospital.	Northampton Hospital.	Danvers Hospital.	Westborough Hospital.	Boston Hospital.	Grafton Hospital.	Medfield Hospital.	Gardner Colony.	Bridgewater Hospital.	Monson Hospital.	Foxborough Hospital.	Massachusetts School for Feeble-minded.	Wrentham State School.	Totals.
Sources of first visits to clinics: —															
Referred by physicians, . . . . .	7	3	28	—	3	182	8	—	33	—	6	—	66	—	333
Referred by other hospitals, . . . . .	1	9	—	—	—	163	1	—	—	1	1	—	26	—	196
Referred by charitable and other organizations, . . . . .	8	—	55	—	—	447	1	—	19	—	2	—	88	1	630
Referred by courts, . . . . .	11	1	10	—	—	80	—	—	—	3	1	—	19	—	125
Referred by schools, . . . . .	51	88	13	—	—	55	—	—	6	—	1	—	239	—	453
Referred by patients, . . . . .	5	—	4	—	—	—	—	—	1	—	—	—	—	—	10
Came by own initiative or that of relatives, . . . . .	8	3	22	—	21	301	2	—	—	—	54	—	51	—	462
Cases discharged from hospital reporting for first time, . . . . .	29	78	183	133	14	165	2	—	2	3	1	11	—	4	625
Miscellaneous and unknown, . . . . .	—	—	2	—	—	184 <sup>1</sup>	—	—	—	—	1	—	36	—	223
Total number of first visits to clinics, . . . . .	120	182	317	133	38	1,577	14	—	61	7	67	11	525	5	3,057
Other than first visits, . . . . .	158	—	141	149	139	535	115	—	4	—	3	16	16	—	1,276
Total number of all visits, . . . . .	278	182	458	282	177	2,112	129	—	65	7	70	27	541	5	4,333

<sup>1</sup> Psychopathic out-patient department.



### COMMITMENTS FOR OBSERVATION AND TEMPORARY CARE FOR THE WHOLE STATE.

The number of commitments for observation (under section 43, chapter 504, Acts of 1909) was 97 for the year. The period designated by the judges in the various cases was usually thirty days.

Of these cases, 44 were subsequently committed, 32 were discharged, 2 were admitted voluntarily, 1 was readmitted under chapter 174, 1 as emergency, and 17 were remaining at the close of the year.

Under chapter 307 of the Acts of 1910, requiring that emergency cases which come into the care or protection of the police in Boston be taken to the Boston State Hospital for temporary care, and forbidding the use of prisons, jails or penal institutions for such persons, 252 were taken to the Psychopathic Department of the Boston State Hospital. Of these, 67 were subsequently regularly committed to the Boston State Hospital, 55 were committed to other institutions, 114 were discharged, 3 were admitted voluntarily, 1 was committed for observation, 2 were admitted as emergency cases, 1 was returned to another institution, 4 died, and 5 cases were remaining at the close of the year.

There were 18 admissions under section 34, chapter 504 of the Acts of 1909, which provides for the apprehension of a patient before examination and commitment; 1 of these was subsequently committed and 8 discharged, 1 was committed for observation, 4 were committed to other institutions, 1 was admitted voluntarily, and 3 remained at close of the year.

	ADMISSIONS UNDER —						
	Section 34, Chapter 504, Acts of 1909 (Apprehension of Alleged Insane Person).	Section 43, Chapter 504, Acts of 1909 (for Observation).	Chapter 307, Acts of 1910 (for Temporary Care, Boston Hospital).	Chapter 174, General Acts of 1915 (for Temporary Care).	Section 45, Chapter 504, Acts of 1909 (for Voluntary Care).	Section 42, Chapter 504, Acts of 1909 (for Care in Emergency).	Chapter 142, General Acts of 1918 (Army and Navy).
Admitted during year, . . . .	18	97	252	2,059	880	37	33
Discharged, . . . . .	8	32	114	642	561	4	15
Discharged to Immigration Commission.	-	-	-	-	2	-	-
On visit, . . . . .	-	-	-	1	30	-	-
On escape, . . . . .	-	-	-	1	3	-	-
Died, . . . . .	-	-	4	51	10	5	-
Regularly committed, . . . .	1	44	67	919	56	14	15
Committed for observation, . .	1	-	1	18	1	-	-
Readmitted under chapter 174, .	-	1	-	1	7	-	-
Admitted as emergency, . . . .	-	1	2	32	1	-	-
Admitted voluntarily, . . . .	1	2	3	105	-	1	-
Returned to institutions, . . .	-	-	1	1	-	-	-
Transferred to other institutions, .	-	-	-	-	1	-	-
Committed to other institutions, .	4	-	55	244	49	10	2
Voluntary to other institutions, .	-	-	-	15	22	2	1
Non-mental at private institutions,	-	-	-	-	-	-	-
Remaining Sept. 30, 1919, . . .	3	17	5	29	137	-	-
Readmitted under chapter 142, .	-	-	-	-	-	1	-

Under chapter 174 of the General Acts of 1915, allowing the admission of patients for ten days for temporary care, 2,059 cases were admitted, of whom 919 were subsequently committed, 244 were committed to other institutions, 18 were committed for observation, 642 were discharged, 105 were received under the voluntary status, 15 were admitted voluntarily to other institutions, 1 was returned to institution, 32 were readmitted as emergency cases, 1 was readmitted under chapter 174, 51 died, 1 was on escape, 1 was on visit, and 29 were remaining at the close of the year.

There were 37 emergency admissions under section 42, chapter 504, Acts of 1909, of whom 14 were regularly committed, 3 were

admitted voluntarily, 10 were committed to other institutions, 4 were discharged, 5 died, and there was 1 remaining on September 30.

Voluntary admissions numbered 880, of whom 56 were regularly committed, 49 were committed to other institutions, 563 were discharged, 30 allowed to go on visit, 3 escaped, 10 died, 1 was committed for observation, 7 were admitted under chapter 174, 22 went voluntarily to other institutions, 1 was admitted as an emergency case, 1 was transferred to another institution, and 137 were remaining at the close of the year.

It is to be noted with interest that during the year covered by the report there were 880 voluntary admissions, 2,059 under chapter 174, General Acts of 1915, and 252 under chapter 307, Acts of 1910, making a total of 3,191 patients who were admitted without any action of the court or judge or other very formal proceeding. Of these 3,191 cases thus admitted, 1,317 were discharged without commitment, 65 died before commitment, 145 signed voluntary requests, and 137 voluntary patients continued their stay in the voluntary status, no commitment being considered necessary, making a total of 1,664 persons who secured the benefits of treatment in our public or private hospitals for the insane without the formality of procedure before a judge, which would have been attended with delays, legal exactions, semi-publicity and the stigma of having been pronounced insane, all of which was thus obviated to the comfort and satisfaction of the patients and friends.

#### THE STABILITY OF SERVICE

in the institutions averages about the same as the previous year. There were 2.78 rotations of all employees, compared with 3.11 rotations the previous year; 3.34 in the nursing staff, compared with 3.70 the previous year. The maximum stability for the whole service was at the Monson Hospital, where there were 1.16 rotations; and for the nursing staff, also at the Monson Hospital, where there were 1.17 rotations.

The average length of the interval between rotations of all employees was 4.37 months; of all nurses, 3.64 months.

The average shortage of employees was 19 per cent.

*Rotation in Service of Persons employed in Institutions during the Fiscal Year ending Nov. 30, 1919.*

INSTITUTIONS.	MALE WARD SERVICE.						
	MEN.			WOMEN.			TOTAL.
	Average Number of Nurses.	Number of Different Persons.	Rotations.	Average Number of Nurses.	Number of Different Persons.	Rotations.	
The insane:—							
Worcester Hospital, . . . . .	67	350	5.22	2	4	2.00	354
Taunton Hospital, . . . . .	28	115	4.11	22	46	2.09	161
Northampton Hospital, . . . . .	30	142	4.73	—	—	—	142
Danvers Hospital, . . . . .	59	190	3.22	12	31	2.58	221
Westborough Hospital, . . . . .	58	351	6.05	3	8	2.67	359
Boston Hospital, including Psychopathic Department, . . . . .	80	369	4.61	15	47	3.13	416
Grafton Hospital, . . . . .	74	412	5.57	3	7	2.33	419
Medfield Hospital, . . . . .	66	423	6.41	—	—	—	423
Foxborough Hospital, . . . . .	26	101	3.88	1	1	1.00	102
Gardner Colony, . . . . .	41	112	2.73	2	3	1.50	115
Totals, . . . . .	528	2,565	4.86	60	147	2.45	2,712
Miscellaneous:—							
Monson Hospital, . . . . .	37	43	1.16	6	7	1.17	50
School for Feeble-minded at Waltham, . . . . .	15	65	4.33	58	164	2.83	229
Wrentham School, . . . . .	5	36	7.20	31	84	2.71	120
Totals, . . . . .	57	144	2.53	95	255	2.68	399
Aggregates, . . . . .	585	2,709	4.63	155	402	2.59	3,111



*Rotation in Service of Persons employed in Institutions during the Fiscal Year ending Nov. 30, 1919 — Concluded.*

INSTITUTIONS.	FEMALE WARD SERVICE.			TOTAL WARD SERVICE.			WHOLE SERVICE.		
	Average Number of All Nurses.	Number of Different Persons employed.	Rotations.	Average Number of All Nurses.	Number of Different Persons.	Rotations.	Average Number of All Employees.	Number of Different Persons employed.	Rotations.
The insane: —									
Worcester Hospital, . . . . .	61	149	2.44	130	503	3.87	272	824	3.03
Taunton Hospital, . . . . .	54	140	2.59	104	301	2.89	215	463	2.15
Northampton Hospital, . . . . .	31	55	1.77	61	157	3.23	139	369	2.65
Danvers Hospital, . . . . .	71	165	2.32	141	386	2.73	273	678	2.48
Westborough Hospital, . . . . .	68	242	3.56	129	601	4.66	262	910	3.48
Boston Hospital, including Psychopathic Department, . . . . .	118	200	1.69	213	616	2.89	434	1,188	2.74
Grafton Hospital, . . . . .	83	237	2.86	160	656	4.10	342	1,058	3.09
Medfield Hospital, . . . . .	86	270	3.14	152	693	4.56	294	1,149	3.91
Foxborough Hospital, . . . . .	20	83	4.15	47	185	3.93	121	328	2.71
Gardner Colony, . . . . .	29	64	2.21	72	179	2.48	160	349	2.18
Totals, . . . . .	621	1,605	2.58	1,209	4,317	3.57	2,512	7,316	2.91
Miscellaneous: —									
Monson Hospital, . . . . .	33	39	1.18	76	89	1.17	162	188	1.16
School for Feeble-minded at Waltham, . . . . .	56	135	2.41	129	364	2.82	243	624	2.57
Wrentham School, . . . . .	51	127	2.49	87	247	2.84	160	430	2.69
Totals, . . . . .	140	301	2.15	292	700	2.40	565	1,242	2.20
Aggregates, . . . . .	761	1,906	2.50	1,501	5,017	3.34	3,077	8,558	2.78

## THE CAPACITY FOR PATIENTS

in all the institutions Dec. 1, 1919, was 17,514, compared with 17,162 the previous year, an increase of 352 beds. The whole number of patients on Dec. 1, 1919, was 18,246, compared with 17,839 the previous year, an increase of 407. There is, however, a deficiency of provision for 732 patients, or 4.17 per cent.

## THE CAPACITY FOR THE INSANE

in State institutions Dec. 1, 1919, was 13,724, an increase of 247 beds. The whole number of patients on Dec. 1, 1919, was 14,507, as compared with 14,273 the previous year, an increase of 234. There is, however, a deficiency of provision for 783 patients, or 5.70 per cent.

Work was in progress at the close of the year providing accommodations for 421 beds for the mentally sick, and 245 for the feeble-minded.

*Working Capacities of Institutions.*

INSTITUTIONS.	MALES.		FEMALES.		TOTALS.	
	Dec. 1, 1919.	Increase for the Year.	Dec. 1, 1919.	Increase for the Year.	Dec. 1, 1919.	Increase for the Year.
The insane: —						
Worcester Hospital, . . . . .	1,122	314	958	312	2,080	626
Taunton Hospital, . . . . .	611	—	605	7	1,216	7
Northampton Hospital, . . . . .	426	—	392	—	818	—
Danvers Hospital, . . . . .	665	90	871	89	1,536	179
Westborough Hospital, . . . . .	518	—	643	—	1,161	—
Boston Hospital, . . . . .	657	—	919	—	1,576	—
Grafton Hospital, . . . . .	587	289 <sup>1</sup>	559	314 <sup>1</sup>	1,146	603 <sup>1</sup>
Medfield Hospital, . . . . .	637	—	903	—	1,540	—
Gardner Colony, . . . . .	497	—	251	—	748	—
Foxborough Hospital, . . . . .	175	38	237	—	412	38
Mental wards, State Infirmary, . . . . .	177	—	496	—	673	—
Bridgewater Hospital, . . . . .	818	—	—	—	818	—
Totals, . . . . .	6,890	153	6,834	94	13,724	247
Miscellaneous: —						
Monson Hospital (sane and insane), . . . . .	547	—	420	—	967	—
School for the Feeble-minded at Waltham, . . . . .	956	—	542	—	1,498	—
Wrentham School, . . . . .	538	—	787	105	1,325	105
Totals, . . . . .	2,041	—	1,749	105	3,790	105
Aggregates, . . . . .	8,931	153	8,583	199	17,514	352

<sup>1</sup> Decrease.

Working Capacities of Institutions — Concluded.

INSTITUTIONS.	NUMBER OF PATIENTS IN INSTITUTIONS DEC. 1, 1919.			Increase for the Year.	EXCESS OF PATIENTS.			
	Males.	Females.	Totals.		Number of Males.	Number of Females.	TOTALS.	
							Number.	Percentage.
The insane: —								
Worcester Hospital, . . . . .	818	723	1,541	7	304 <sup>1</sup>	235 <sup>1</sup>	539 <sup>1</sup>	25.91 <sup>1</sup>
Taunton Hospital, . . . . .	657	656	1,313	6	46	51	97	7.97
Northampton Hospital, . . . . .	510	495	1,005	8 <sup>1</sup>	84	103	187	22.86
Danvers Hospital, . . . . .	656	850	1,506	4	9 <sup>1</sup>	21 <sup>1</sup>	30 <sup>1</sup>	1.95 <sup>1</sup>
Westborough Hospital, . . . . .	533	734	1,267	28	15	91	106	9.13
Boston Hospital, . . . . .	760	963	1,723	83	103	44	147	9.32
Grafton Hospital, . . . . .	861	953	1,814	19	274	394	668	5.82
Medfield Hospital, . . . . .	616	937	1,553	19	21 <sup>1</sup>	34	55	.84
Gardner Colony, . . . . .	505	300	805	33	8	49	57	7.62
Foxborough Hospital, . . . . .	213	241	454	29	38	4	42	10.19
Mental wards, State Infirmary, . . . . .	194	505	699	6 <sup>1</sup>	17	9	26	3.86
Bridgewater Hospital, . . . . .	827	—	827	20	9	—	9	1.10
Totals, . . . . .	7,150	7,357	14,507	234	260	523	783	5.70
Miscellaneous: —								
Monson Hospital (sane and insane), . . . . .	451	474	925	50	96 <sup>1</sup>	54	42 <sup>1</sup>	4.34 <sup>1</sup>
School for the Feeble-minded at Waltham, . . . . .	946	634	1,580	89	10 <sup>1</sup>	92	82	5.47
Wrentham School, . . . . .	518	716	1,234	34	20 <sup>1</sup>	71 <sup>1</sup>	91 <sup>1</sup>	6.86 <sup>1</sup>
Totals, . . . . .	1,915	1,824	3,739	173	126	75	51 <sup>1</sup>	1.34 <sup>1</sup>
Aggregates, . . . . .	9,065	9,181	18,246	407	134	598	732	4.17

<sup>1</sup> Decrease.



## THE PUBLIC INSTITUTIONS.

## WORCESTER STATE HOSPITAL.

Opened in January, 1833. Present capacity, 2,080.

Valuation of the plant, per capita of capacity, \$1,045; real estate, \$918; personal, \$127.

Daily average number of patients on books, 1,885.38; in hospital, 1,551.14; in family care, 37.96; on visit or escape, 296.28.

Number on books Oct. 1, 1919, 1,873; in hospital, 1,555; in family care, 35; on visit or escape, 283.

All admissions, 609.

Admissions as insane, inclusive of temporary-care cases, 605.

First cases of insanity, 379.

Voluntary admissions, 8.

*Finances.*

Expenditures from maintenance funds, \$473,143; total receipts, \$68,390, being \$38,131 from private patients, \$24,001 from reimbursing patients, \$6,258 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$5.66.

Weekly per capita cost of whole service, \$1.96; ward service, \$0.74.

One person employed for every 5.71 patients; 1 nurse for every 11.97 patients.

Average monthly wage for all persons employed, \$49.87; for nurses, \$39.33; men, \$40.11; women, \$38.11.

*Extract from Trustees' Annual Report.*

We desire, first of all, to express our high appreciation of the work of the acting superintendent, Dr. B. Henry Mason, who has conducted the affairs of the institution in an efficient, progressive and economical manner ever since the death of Dr. Scribner, in June, 1918.

The principal event during the past year has been the absorption, under chapter 74 of the General Acts of 1919, of the hospital on Summer Street, formerly a part of the Grafton State Hospital. This means not only a larger institution, but the opportunity for greatly extended service through the establishment of a psychopathic department.

Many important needs of the hospital have, by general consent, been unfulfilled during the war, but their continued postponement will mean

(and already does now) poor economy and a serious handicap. Notable among these needs are a cold-storage plant, an improved kitchen and a larger laundry. But even more imperative is the call for fireproof stairs and an adequate water supply for protection from fire.

In order to keep the medical tone of such an institution as ours upon a high plane, the salaries of resident physicians must be raised to a point where they will inevitably attract young men and women of ability and promise. That end has not yet been sufficiently attained.

*Extract from Superintendent's Annual Report.*

It is an interesting fact that during the first nine months we received an average of  $53\frac{1}{2}$  patients per month, but from July 1 to October 1, when war-time prohibition was in force, there was a decrease in the admission rate of 8.25 patients per month. From this showing we might be led to believe that alcohol alone played a paramount part in the production of mental aberration. In view of the fact, however, that there has been a yearly decrease in the number of patients admitted to the hospital since 1916, it is evident that there are other operating factors. As one of the principal among these I would venture to mention the industrial success and thrift which has resulted in less idleness and better living conditions.

An effort has been made to hold a clinical staff meeting every morning except Sundays and holidays. Saturday mornings are reserved for a literature meeting at which time abstracts are read, and the articles and other clinical matters discussed. A laboratory staff meeting is scheduled to be held in the laboratory twice a month, at which time interesting pathological material is reviewed, and a correlation is often made of clinical and pathological findings.

Although we have been without a director of industrial therapeutics, the work in that department has been carried on in a manner worthy of comment. Under the stimulus of intelligent teaching by a tactful person well versed in the principles of ergotherapy, it is certainly gratifying to see the improvement that often results in chronic patients through a process of re-education and awakening, and the rapid readjustment of habits and mental poise in those acutely ill. Our annual Christmas exhibition and sale attracted much attention in the community.

The social service work has been carried on by Miss Jennie A. Harrington, who has devoted time and study to the wide range of duties embraced in the field in a commendable manner.

During the past year the training school has made a very creditable showing under the able and energetic guidance of Mrs. Elsie I. Richards, the superintendent of nurses. An affiliation was arranged with the Boston City Hospital, replacing the one we formerly had with the Bellevue and Allied Hospitals of New York City. This seems of advantage, as the pupils now receive contagious work in addition to the fact that their entire training is received in Massachusetts. A class of twelve was

graduated in November, several of whom have already taken up private nursing, or accepted more lucrative positions.

Much difficulty has been experienced during the year in securing sufficient help for the various departments of the institution. Although a general wage increase was granted last August, it effected only a temporary relief or improvement, as the great demand for labor in the industries and the continual increase in wages in the community resulted in a large percentage of our employees remaining in the service but a comparatively short time. Notwithstanding the difficulties under which we have been compelled to labor because of our inability to secure a full quota of officers and employees, the fields which embrace the humanitarian and therapeutic work of the hospital have been given energetic attention. That the increased demand has been met by conscientious endeavor, loyalty to the cause, and hearty co-operation, is plainly indicated by the fact that there have been 124 more patients discharged than there were during the preceding year. It is true, however, that if the Commonwealth is to continue to maintain the high standard of care for these unfortunate individuals, who because of mental disease have become dependent upon the State for supervision and treatment, provision must be made which will enable us to offer better pay to the nurses and attendants who often have to perform arduous duties that involve self-sacrifice, obedience, singleness of purpose and a good conscience.

#### *Summer Street Department.*

On Dec. 1, 1919, the institution located on Summer Street will become a department of the Worcester State Hospital (General Acts of 1919, chapter 74). This will offer an opportunity for the fulfillment of one of the most urgent needs of the community or district from which we now receive patients, — the establishment of a psychopathic department. There will be opened to the troubled mind a place where it can seek advice and treatment at the mental clinic, and, to the individual whose power of application has become so affected by reason of nervous or mental disease that he can no longer pursue his usual occupation, a place to go voluntarily for hospital care and treatment. By the expenditure of a small amount of money for equipment and minor changes in the interior of the buildings there would be established a modern institution along the lines of a general hospital, where patients could be sent for the cure or amelioration of mental disease by intensive clinical study and treatment. Medical men in the community would be afforded an opportunity to attend clinics and staff conferences, that they might better understand and apply the principles of mental hygiene, foresee and detect early mental symptoms, and institute preventive or remedial measures before the disease process is allowed to progress until it passes beyond the reach of human skill.

The out-patient department will also receive children and adults, who show subnormal mentality, delinquency or crime, from the schools,



courts, charitable institutions and other agencies, to have their true mental status determined in order to assist the various agencies in choosing a course of action in disposing of the case. Individuals suffering from neurosyphilis may go for intensive treatment, although able to live at home and possibly remain a wage earner. Through the out-patient and social service departments, also, those persons who appear to be misfits in our social organism might receive assistance in correcting mental habits or readjusting themselves to new environment, thereby preventing the development or progress of mental disease and preserving them as useful citizens.

#### TAUNTON STATE HOSPITAL.

Opened in April, 1854. Present capacity, 1,216.

Valuation of the plant, per capita of capacity, \$808; real estate, \$640; personal, \$168.

Daily average number of patients on books, 1,592.30; in hospital, 1,316.71; in family care, 34.21; on visit or escape, 241.38.

Number on books Oct. 1, 1919, 1,568; in hospital, 1,318; in family care, 31; on visit or escape, 219.

All admissions, 515.

Admissions as insane, inclusive of temporary-care cases, 511.

First cases of insanity, 393.

Voluntary admissions, 7.

#### *Finances.*

Expenditures from maintenance funds, \$445,501; total receipts, \$39,399, being \$19,190 from private patients, \$16,307 from reimbursing patients, \$3,902 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$6.33.

Weekly per capita cost of whole service, \$2.07; ward service, \$0.76.

One person employed for every 6.10 patients; 1 nurse for every 12.48 patients.

Average monthly wage for all persons employed, \$56.16; for nurses, \$42.62; men, \$45.41; women, \$41.22.

#### *Extract from Trustees' Annual Report.*

In times of great difficulty, emergency and distress it sometimes seems that the written as well as the spoken word is inadequate, and in such cases brevity is apt to prevail. During the year now past the work of



the hospital has been carried on under greater difficulties than during any previous year since the beginning of the great war in 1914. The suspension of actual hostilities in November, 1918, brought no relief; prices for all commodities have continued to increase and are still increasing; scarcity of labor has become more and more acute; and last, but by no means least, no relief is in sight. The result has been painfully apparent in all hospital departments, but has been especially noticeable in the ward service, which has shown at no time during the year past a shortage less than 50 per cent, while at the present time it is laboring under a shortage of more than 60 per cent. When we realize that this indicates that we lack the means to give necessary care to the most helpless and unfortunate of the State's dependents, and that the situation promises to get worse rather than better, it certainly calls for serious consideration from every one who has the cause of suffering humanity at heart. Were this the situation in one large institution alone it would be sufficiently disquieting, but the same condition extends throughout the State. Let us hope that a remedy may be found not too late.

The trustees have with much pleasure welcomed back those officers and employees who, having loyally served our country in her time of need, showed their loyalty to our hospital by returning to our fold. That they all returned with a record of work well done was, while expected as a matter of course, nevertheless, most pleasing.

*Extract from Superintendent's Annual Report.*

Our training school for nurses successfully struggled through the year under great difficulties. The war shortage of nurses continued through the entire year and is still acute. The influenza epidemic delayed school work for weeks. In addition to these handicaps, the assistant superintendent of nurses, Miss Frances E. Edgett, resigned in midyear.

*Training School Statistics.*

	Men.	Women.	Totals.
Graduating in 1919, . . . . .	—	13	13
Junior class, . . . . .	—	12	12
Intermediate class, . . . . .	—	20	20
Senior class, . . . . .	—	14	14
	—	59	59
Number now in Boston City Hospital, . . . .	—	14	14
Number during year in Boston City Hospital, .	—	26	26

I regret to be obliged to report the great loss sustained by the hospital and the school by the recent resignation of Miss R. G. Cameron, superintendent of nurses since 1910. Miss Cameron entered this hospital as pupil nurse in 1902, graduating from the training school in 1904. She was then employed in this hospital and in private and general hospital nursing until 1910, when, as above stated, she was appointed superintendent of nurses, which position she held continuously until her resignation a few weeks ago. Early in 1918 she was granted leave of absence by your Board to enable her to enter the United States service, where her promotion has been rapid and her success most gratifying.

Mention of our mental clinics at the hospital proper and at Fall River and New Bedford has been made in previous reports. At these clinics patients on trial visit report, and out-patients who present themselves are examined and advised. Perhaps the most interesting of our clinics are the two held the first Friday and Saturday of each month in Fall River and New Bedford, respectively, in co-operation with the school authorities for the examination of children; these clinics are conducted with the co-operation and assistance of Dr. Fernald, superintendent of the Massachusetts School for the Feeble-minded, to whom all credit is due for whatever assistance they have been to these communities. During the past year we have been gratified at the greater number of children that have been sent to our weekly clinic at the hospital by the school authorities of Taunton, as it indicates that the work we have been trying to do is recognized as of some value.

#### NORTHAMPTON STATE HOSPITAL.

Opened in August, 1858. Present capacity, 818.

Valuation of the plant, per capita of capacity, \$1,464; real estate, \$1,242; personal, \$222.

Daily average number of patients on books, 1,168.51; in hospital, 972.32; in family care, 20.08; on visit or escape, 176.11.

Number on books, Oct. 1, 1919, 1,215; in hospital, 982; in family care, 20; on visit or escape, 213.

All admissions, 463.

Admissions as insane, inclusive of temporary-care cases, 461.

First cases of insanity, 361.

Voluntary admissions, 23.

#### *Finances.*

Expenditures from maintenance funds, \$308,616; total receipts, \$70,904; being \$46,956 from private patients, \$17,595 from reimbursing patients, \$6,353 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$5.91.

Weekly per capita cost of whole service, \$2.12; ward service, \$0.67.

One person employed for every 6.95 patients; 1 nurse for every 16 patients.

Average monthly wage for all persons employed, \$63.33; for nurses, \$48.09; men, \$50.52; women, \$45.75.

*Extract from Trustees' Annual Report.*

From the superintendent's report it will be noted that our condition of overcrowding continues despite the many patients, 92 in number, transferred to institutions in the eastern part of the State. We still believe that our hospital should care for all the patients of the district served by it, and we refer to the recommendations repeatedly made in former reports for suitable provision within the district of all the mental cases of western Massachusetts. This matter is so important that we feel it our duty to again call attention to it. The present conditions are not just to the institution nor to the patients who are here and the patients who are to come to us.

Another matter of serious importance is the unsatisfactory scale of salaries and wages. It is at present so unsatisfactory as to preclude our procuring and retaining in our service enough employees to properly care for our patients. For quite obvious reasons it was impossible to fill our quota of employees during the period of war, but the great shortage of help still prevails, and from other causes that are remediable. We cannot compete with the industrial world. Employees leave us to receive more pay elsewhere, and the wages we are allowed to pay will not tempt others to fill their places. The faithful few who remain, therefore, have to do more than their share. The hospital is still in need of help in every department, and we urge that we be allowed to pay at least what is paid for like services in the neighborhood.

Our associate, Mr. McQuaid, felt it his duty to resign, much to our regret, because his removal from the district prevented his regular attendance at our meetings. He took an active interest in the institution and its patients, being one of our most regular attendants. We shall miss the intelligent co-operation and the cordial relationship that existed between us. Mr. Charles W. King of Chicopee was appointed to fill the vacancy thus created, entering upon his duties in October.

*Extract from Superintendent's Annual Report.*

Medical service throughout the year has been more arduous than in any other recent year because of an increased amount of work with a smaller staff.



During a larger part of the year there was but one assistant physician on each service, male and female, and the physician to the out-patient department, who gave up her special work to help in ward work in each service as required. The number of patients to be cared for was larger than ever, and we had a serious epidemic of influenza to deal with, affecting not only patients but employees, and three of the four physicians, including the superintendent. We were fortunate in having Dr. H. L. Paine of the Commission on Mental Diseases to help us during our extremity, to our great relief and to our great appreciation.

All the members of the staff deserve my commendation for their loyal attention to the extra demand upon them during this whole period. It is "no idle job" for one physician to have the care of 500 patients, admitting nearly half as many more, making the mental examinations, writing case histories, prescribing for them, attending to night calls, waiting upon visitors, replying to letters and telephone calls, making routine analyses, tests and vaccinations, lecturing to the nurses, attending to the clinics and the like.

We have kept up our extraneous activities, holding clinics regularly at Springfield, Greenfield and Pittsfield, except during the period of quarantine, and opening a new one at North Adams, and entertaining with lectures and demonstrations classes in sociology, also in abnormal psychology, from Smith, Mount Holyoke and Amherst Colleges, and the International College at Springfield. A second course of lectures with demonstrations was given to students of the Smith College Training School for Social Work, and a course of lectures on psychiatry was given to the nurses of the Dickinson Hospital.

By a rather rigid quarantine we seemed likely for several weeks to escape the serious epidemic of influenza, which was sweeping over the country. We gave injections of vaccine early to half of our population, it being then an untried measure. During the recurrent wave of the epidemic, entrance to the institution was gained through employees who had come in contact with it outside, and through numerous patients who had the disease on admission, — in some of the latter, in fact, the psychosis being caused by the influenza. The vaccine given did not seem to influence or control the situation in our hospital. We had, altogether, 182 cases among the male population, of whom 18 were employees. Thirty-one of these developed broncho-pneumonia. Among the women there were 69 cases, 22 of whom were employees. Thirty-one of these had broncho-pneumonia. Of the total 251 cases, 21 died, one of whom was an employee.

The out-patient and social service activities so well begun here nine years ago have steadily increased in extent and importance, showing that such a need existed and that our efforts have been appreciated. To meet the growth of this important work we appointed an additional social service worker, Miss Lillian S. Gray, who came to us in March. She is a graduate of Vassar College, and was a member of the Smith



College Training School for Social Work in 1918, completing her training with a course at the Massachusetts General Hospital before coming to us.

Our experience has shown us a clear need of a medical worker in this field. Court cases, examinations of cases and certifications for commitment to the schools for the feeble-minded, consultations with reference to commitment, or otherwise, to a State hospital, and the like, can best be done by a physician who also is trained in social service work. Massachusetts has been looked up to for its progress in these directions. As this report is being written an intimation is made that economy may require some curtailment of our work, which would be regrettable.

The following reports, nearly in the words of the two officers in the out-patient department, give only a brief outline of our activities.

Work was much curtailed in the out-patient department early in the year. The hospital was quarantined because of the influenza, and the physician was engaged in ward work because of the depletion of the male staff, and also during the epidemic of influenza in the hospital.

Few applications were received for boarding patients, and some of those already in family care were returned to the hospital because of the increased cost of living.

The clinics at Springfield, Greenfield and Pittsfield have been found increasingly useful in the communities they serve, and an additional one has been established in North Adams, where we are meeting with the heartiest co-operation on the part of physicians, board of health, and the various charitable and public welfare organizations. The Springfield clinic is now held in the rooms of the board of health in the municipal building. The improved surroundings and more accessible location have led to more frequent and voluntary reports from paroled patients.

One hundred and one cases were seen in consultation, — 52 males and 49 females. Of these, 74 were examined because of suspected feeble-mindedness or delinquency, and 27 were neurasthenic or psychotic.

The State schools for the feeble-minded are overcrowded, and the waiting lists so long that it is only the younger and teachable children who can be received. There is a large number of adult or adolescent morons who are a menace to society if left at liberty in the community, but who are capable of regular employment under supervision. They cannot be received in the State schools, and it would seem that an industrial institution for such defectives would safeguard the community as well as the individual.

The males are those arrested for petty crimes, and some of them were draft evaders or deserters from the army. Many of the girls become illegitimately pregnant at an early age.

The short time limit permitted by law between the examination and commitment of the feeble-minded is a decided hardship in our experience. In some cases our physician makes long trips to examine these people. An application to the superintendent of the school is then necessary, and usually by the time a reply has been received a second examina-

tion is necessary before the case can be taken to court. If this second examination is refused by parents or the individual, further action cannot be taken.

In the last six months 23 cases of discharged soldiers have been considered. All soldiers are referred immediately to social service when they are admitted to the hospital, and as soon as possible, thereafter, are brought into contact with their local Red Cross chapter. In co-operation with the Red Cross workers, all matters of guardianship, compensation, bonus, insurance, etc., are attended to. These cases have presented some rather difficult problems in which the Red Cross chapters have been of the greatest service.

The majority of the cases referred by the physicians are for social history from outside sources, 26 of this type having been taken up in the six-month period. Occasionally a social problem is discovered, which is helped either by the hospital social service or is referred to the appropriate agency. The majority of these cases, however, cease to be within the realm of social service after the history is secured.

#### DANVERS STATE HOSPITAL.

Opened in May, 1878. Present capacity, 1,536.

Valuation of the plant, per capita of capacity, \$1,689; real estate, \$1,540; personal, \$149.

Daily average number of patients on books, 1,837.11; in hospital, 1,486.94; in family care, 26.28; on visit or escape, 323.89.

Number on books Oct. 1, 1919, 1,844; in hospital, 1,478; in family care, 23; on visit or escape, 343.

All admissions, 720.

Admissions as insane, inclusive of temporary-care cases, 720.

First cases of insanity, 509.

Voluntary admissions, 29.

#### *Finances.*

Expenditures from maintenance funds, \$433,832; total receipts, \$82,473, being \$45,322 from private patients, \$31,579 from reimbursing patients, \$5,572 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$5.49.

Weekly per capita cost of whole service, \$2.36; ward service, \$0.92.

One person employed for every 5.44 patients; 1 nurse for every 10.49 patients.

Average monthly wage for all persons employed, \$56.66; for nurses, \$42.84; men, \$44.58; women, \$41.70.

*Extract from Trustees' Annual Report.*

The unusual and perplexing troubles created in the hospital by the war have seemed to multiply and increase since the armistice. It has been growing more and more difficult to command sufficient nursing help for the work of the hospital. Early in the year wages were materially advanced, but without much betterment of the situation. Before a twelvemonth had passed these concessions to the law of supply and demand ceased to have any attraction whatever. The institution found itself engaged in a competitive struggle for help with other industries in which the bidding soon passed beyond the limit of its means. The forecast for the immediate future is anything but reassuring in this regard. A wage scale out of all proportion to the unprecedented rates offered in private industries, and other public enterprises, precludes all possibilities of successful competition in the labor market. The most important function of the hospital, indeed the function for which it exists, — the care of the patients, — has been set at hazard by the fact that such inducements as we are enabled to present to the class of help desired in our hospitals appear trifling and inadequate as compared with the returns for service, requiring equal ability, in other occupations.

It is a subject deserving thoughtful, earnest study. The quality and efficiency of service in our public institutions are matters of important and serious concern to the majority of citizens. The welfare of the sick in our State hospitals calls forth instant, sensitive attention whenever it comes to question, whether in the form of studied judgment, prejudiced censure, approbation or denunciation. An investigation of the immense impediments lying in the way of satisfactory service to-day should prove enlightening to the public, and valuable, indeed, even if it accomplished nothing more than to reveal the exceeding difficulty of carrying on humanitarian work such as this with an underpaid, insufficient force of workers, entering the service in many instances only because they were tried and found incapable in more remunerative employment, and remaining only till they earn enough to carry them elsewhere, or till an opportunity for other employment occurs. Not among ward help alone, but the office force and employees in domestic and other hospital occupations as well, has the universal labor unrest tended to impair morale and promote discontent, the final results of which undoubtedly will be lowered efficiency through lack of necessary employees and curtailment of service and repairs. Deplore it as we may, there is nothing strange or inexplicable about this situation. The hospital employee would be less



than human if he did not place the same proportionate value upon his time as the butcher, the baker, the candlestick maker, or a member of any other craft or calling, and but little less than divine if satisfied to donate to the State, from humanitarian or charitable motives, the difference between what he actually receives and what he might gain in other — and perhaps more pleasing — fields of endeavor.

It would not seem impossible to convince the average taxpayer that cheap labor in the public institutions is not likely to reach a higher standard of efficiency than cheap labor in any other form of industry.

*Extract from Superintendent's Annual Report.*

A brief reference to the shortage of officers and employees during the year seems not amiss, showing more clearly than can be expressed otherwise the obstacles and troubles in the paths of those who in the face of much criticism mean to try to carry out great and difficult ideals. The quota of physicians is 10. Part of the year this force was reduced to 2, in addition to the superintendent. The greater portion of the time service was carried on with four assistants. The highest number at any time during this hospital year was 6.

The attendant and nursing force was far below the requirements. The shortage of nurses and attendants on the female service alone amounted at times to 40 per cent of the normal.

There is no element in the life of the country to-day which feels more sharply the pressure of labor and cost of material at its present dizzy height, and none which has done more to buoy itself up with futile hopes and longings for the establishment of industrial stability, than the hospitals. The number of young women applying for the course of training in nursing is very small. There are so many more alluring opportunities in business and industrial fields, the compensation for service elsewhere is so much greater, that the promise and the material advantages of a career in a poorly paid, arduous profession do not attract the class of young women who were wont to enter the training school. The attendant class, who have not even the stimulus of such ambitions, are plainly in the work for what there is in it for them, and the hospital comes directly into competition with other industries which are able to outbid it for their services. If the present conditions are to prevail, it is plain that public institutions of this kind must receive increased appropriations for personal services if their past records of efficiency are to remain secure.

*Calisthenics, Re-educational Work and Habit Training.*

Distinct progress has been made along the lines of re-education and occupational therapy. Habit-forming classes have been begun among the male and female demented or untidy cases. Between 75 and 80 patients of this type, selected by the physicians on each service, are daily in train-



ing in rooms on the fourth floor, under the occupational instructor aided by nurses and attendants. The treatment is administered under medical supervision and advice, the objects sought being to arouse interest and confidence, overcome functional disability and re-establish capacity for social usefulness. To overcome the tendency to lapse into idle indifference or untidy habits on the wards, games, music by victrolas, and simple occupations have been introduced on the wards, and a regular schedule made for taking patients to the water sections. There has been a marked improvement in the habits of the more backward patients under this régime. The practical value of such efforts from the standpoint of economy is seen in the fact that the amount of laundry sent out from these wards has been reduced from 4 to 1½ sacks daily. Over 300 patients have been under training in these classes.

In the occupational center, or arts and crafts rooms, a large number of patients, a considerable proportion of whom are graduates of the habit-forming classes, are instructed and employed in productive occupations, graded and regulated by order of the physician according to the individual's interest, needs and capability.

Recreational and play activities, gymnastics, calisthenics, medicine ball exercise, etc., form an important part of the daily program. It is our aim that the hospital spirit of cure and restoration shall dominate the classes, to the end that the treatment shall raise the mental and social level of even those who are incurable.

#### *Camp Fire Girls.*

In order to promote social activity and readjustment among those patients whose forms of psychoses promise recovery or return to community life, we have organized, during the year, a camp of Camp Fire Girls. This organization has a charter from the national organization. One of our educational workers has acted as guardian, receiving her appointment from the home camp. The members meet with their guardian twice weekly, and spend the afternoon in calisthenic games and exercises. Usually a hike of several miles is taken, and not infrequently the members cook supper out of doors, building a camp fire and preparing their own food. Once a month, at least, a ceremonial meeting with the full ritual of the Camp Fire Girls is held, at which time honor beads are awarded for honors won by the girls. Awards depend upon work done in the wards, and assistance in other departments of the hospital.

The camp has received a course in first-aid nursing, and several have been given honors for proficiency.

All ceremonial gowns and gymnasium suits have been obtained by money earned by the members.

The original camp consisted of ten girls; five of these have been discharged, and six new members have taken their places. Much of the success of this new departure is due to the enthusiastic co-operation of Miss Edith Davis of our educational department.

An organization along similar lines is under way in the male section. This will partake of the features of a quasi-military organization under the leadership of men who have had training in military drill during the war. Much enthusiasm over the project is manifested by the patients, and membership, depending upon good conduct, is eagerly sought. Funds for uniforms have been gained by entertainments in the hospital.

#### *Dentistry.*

From June to September we were fortunate in having with us A. W. Hicks, D.M.D., and O. F. Banks, D.M.D., who did excellent work in general dentistry.

During the year 735 new patients were examined, of whom 149 had X-ray examinations. A total of 773 prophylactic treatments were given. Under novocain or nitrous oxid or ether 1,656 teeth were extracted. Three hundred and ninety teeth were filled with cement or amalgam, and a total of 127 abscess treatments were made. One fractured jaw was treated, 26 dentures made, 3 dental cysts removed, and 4 roots amputated.

Miss Cassie M. Mason was appointed to the position of dental hygienist in September, and she will continue prophylactic work during the coming year.

A modern dental chair, cuspidor and nitrous oxid and oxygen equipment was installed during the year.

The visiting dentist, Dr. Frank H. Leslie, has continued in the service during the year.

A request has been made for the appointment of a full-term dentist to the service.

#### *The Training School for Nurses.*

With the end of the war interest in nursing appears to have abated. Young women of the type needed in our training school appear to find greater attractions and better opportunities in other fields of endeavor. The number of applicants for training is very small, and graduates cannot be retained in the service while superior inducements and advantages elsewhere are pressed upon their attention.

#### WESTBOROUGH STATE HOSPITAL.

Opened in December, 1886. Present capacity, 1,161.

Valuation of the plant, per capita of capacity, \$1,263; real estate, \$825; personal, \$438.

Daily average number of patients on books, 1,591.54; in hospital, 1,266.28; in family care, 25.60; on visit or escape, 299.66.

Number on books Oct. 1, 1919, 1,580; in hospital, 1,273; in family care, 25; on visit or escape, 282.

All admissions, 448.

Admissions as insane, inclusive of temporary-care cases, 440.

First cases of insanity, 215.

Voluntary admissions, 52.

#### *Finances.*

Expenditures from maintenance funds, \$466,865; total receipts, \$92,441, being \$64,440 from private patients, \$23,717 from reimbursing patients, \$4,284 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$6.79.

Weekly per capita cost of whole service, \$2.47; ward service, \$0.94.

One person employed for every 4.90 patients; 1 nurse for every 9.74 patients.

Average monthly wage for all persons employed, \$53.75; for nurses, \$41.72; men, \$42.89; women, \$40.61.

#### *Extract from Trustees' Annual Report.*

The greatest and constant need of the hospital has been some method of delivering coal at the boiler house economically and without delay. At the last session of the Legislature the right of taking a small amount of neighboring pasture land was granted to the Commission on Mental Diseases, and now an appropriation should be made for laying a spur track upon this land and connecting the hospital heating plant with the New York, New Haven & Hartford Railroad tracks at Talbot Station. Provision should be made, also, for the storage of the fuel and other freight.

All of the medical staff, except the woman physician, were in army service. The hospital is now deriving many advantages from their valuable and widened experience, in the treatment of disease and in executive management.

The two years of the recent past have been years of very great and severe strain. To persons not connected with large institutions for the insane it is impossible to realize what an increased amount of work must be done in war time by each employee who remains at his post to make up for the many who have gone into military service, and for those who have gone elsewhere to more remunerative labor. It was necessary oftentimes for 1 person to do the work of 4. The situation invited disaster. The dangers of accident from lessened oversight and care weighed heavily upon all in responsible positions. Many of the conscientious and self-sacrificing workers in this institution bore upon them daily the signs of



tire and apprehension through these dark days. We make public our appreciation of their sturdy faithfulness and our gratitude to them all.

Dr. Spalding found that he must obtain relief from his duties, and presented his resignation in the autumn of 1918; but, realizing the difficulties of finding a successor at that time, he continued in his position until the 19th of June, 1919, and thereby concluded seven years (from March 23, 1912) of intelligent, progressive and sympathetic service as superintendent of this hospital.

Dr. Walter E. Lang, immediately upon discharge from the army, became superintendent. He had been lieutenant, captain and major in the Medical Corps, and his last appointment, in Debarkation Hospital No. 3, New York City, had given him valuable training in administrative duties. The seven years preceding his enlistment had been spent as assistant physician in the Homœopathic State Hospital for the Insane, at Allentown, Pa. Those years of medical work in a State hospital, under the direction of a wise and efficient superintendent, and the time spent in executive duties in the army, have given Dr. Lang an unusually good preparation for the superintendency of this hospital, and the half year of service shows already his fitness for successful management.

*Extract from Superintendent's Annual Report.*

The work of the social service department has continued to be of great assistance in caring for our patients. Through this department adequate histories are secured on difficult cases, furloughed patients are visited, caretakers' homes are inspected, home conditions are investigated in cases about to leave the hospital, and positions are secured for those capable of leaving the hospital on a self-supporting basis.

The clinic at the out-patient department of the Massachusetts Homœopathic Hospital, Boston, has been continued, and each Tuesday the superintendent or his assistant meets there patients who have been furloughed from the hospital, and such other persons as members of the profession wish to refer for an opinion as to mental condition or advisability of commitment. This clinic, though not large, has a very useful place in the handling of furloughed patients, as they or their relatives will frequently visit there when they will not make the trip to the hospital.

Following the custom of many years, the students of the senior class of the Boston University School of Medicine have been received at the hospital for a five weeks' course of instruction in psychiatry. The course is arranged in such a manner that adequate opportunity is given to each student to become familiar with methods of physical and mental examination, and with types of laboratory work which are necessary in the diagnosis and treatment of mental diseases.

It has become increasingly difficult to secure qualified candidates for the position of pupil nurse at this hospital, in a great part because of the fact that young women are offered opportunities in the commercial world with pleasanter occupation, more attractive living conditions and greater



remuneration. Those who do choose nursing as a profession do so because of their interest in the work itself, or the desire to be of service to those less fortunate than themselves.

On October 9 the 1919 class was graduated in the chapel at the hospital with appropriate exercises.

Affiliation with the Massachusetts Homœopathic Hospital is being continued. Nurses from this hospital are resident there for nine months during the junior or senior year, and receive special instruction in pediatric, obstetric and surgical nursing.

Throughout the year there has been a shortage of employees in all departments. This condition has hindered the accomplishment of many things which would have been desired; in fact, has made us feel that we were fortunate in being able to care, even reasonably well, for the comfort of our patients. The remuneration which we are entitled to offer in the various positions is far below that which is offered in neighboring communities for the same type of service, amid pleasanter surroundings and with easy accessibility to urban communities and their attractions. It has been necessary frequently to require employees to do a great deal of overtime work, but this cannot keep on indefinitely. The remedy, if there be a remedy for this condition, is to increase the remuneration sufficiently to compete successfully for the labor available in the community.

Believing that the patients should be provided with as much entertainment and diversion as possible, weekly dances have been held throughout the winter months, and at frequent intervals professional talent has been engaged to entertain them in the hospital auditorium. In addition to this, recently a moving-picture outfit has been procured, and now entertainments of this sort are being held weekly in the auditorium and at three of the outlying colonies.

An orchestra of seven pieces has been developed from among the patients, which furnishes music at the congregate dining room daily, and from time to time goes to the colonies for the benefit of those who are unable to come to the main group. It also furnishes music for the weekly dances.

Because of the rather isolated location of the hospital, and the difficulties and expense of transportation to neighboring communities, an effort has been made to develop or encourage local social activities, and to this end monthly dances have been inaugurated for employees and their friends, with considerable success.

#### BOSTON STATE HOSPITAL.

Opened in December, 1839. Present capacity, 1,576.

Valuation of the plant, per capita of capacity, \$2,205; real estate, \$2,045; personal, \$160.

Daily average number of patients on books, 1,877.70; in hospital, 1,587.41; in family care, 8.08; on visit or escape, 282.21.

Number on books Oct. 1, 1919, 2,039; in hospital, 1,727; in family care, 8; on visit or escape, 304.

All admissions, 2,138.

Admissions as insane, inclusive of temporary-care cases, 2,138.

First cases of insanity, 1,699.

Voluntary admissions, 352.

### *Finances.*

Expenditures from maintenance funds, \$669,098; total receipts \$53,793, being \$23,480 from private patients, \$27,579 from reimbursing patients, \$2,734 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$7.49.

Weekly per capita cost of whole service, \$3.14; ward service, \$1.20.

One person employed for every 3.93 patients; 1 nurse for every 8.01 patients.

Average monthly wage for all persons employed, \$53.75; for nurses, \$41.88; men, \$43.24; women, \$40.31.

### *Extract from Trustees' Annual Report.*

The establishment of the Massachusetts State Psychiatric Institute by the Commission on Mental Diseases has relieved the Psychopathic Department of the functions of instruction and research which were made a part of its duties by the statute under which the department was established. The institute will, for the present, occupy a certain portion of the building of the department for its offices and laboratories, and will have clinical opportunities in the wards of the department. Dr. E. E. Southard has been appointed director of the institute, and has, thereupon, resigned as director of the Psychopathic Department. The trustees desire to express their grateful appreciation of the valuable services of Dr. Southard in the organization and development of the Psychopathic Department, of which he has had charge since its establishment. The office of the director has been discontinued, and the administration of the department will be cared for by the superintendent, assisted by a chief executive officer and a chief medical officer, both in residence at the department.

### *Extract from Superintendent's Annual Report.*

The difficulty of maintaining an adequate force of employees in the various departments of the hospital has continued with little improvement. There were 307 employees in the hospital department on Nov. 30, 1918. During the year 762 were appointed, 713 resigned and 42 were

discharged. Ten hundred and sixty-nine persons occupied 351 positions, — a rotation of 3.05. The war has been generally looked upon as accounting largely for the shortage which exists in all institutions. Since the return of the expeditionary forces we have had much less difficulty in obtaining men. We are still having the same difficulty, however, in obtaining the services of domestics and nurses. Our troubles must be attributed largely, if not entirely, to the rate of wages paid. The cost of living has, of course, very materially increased, and the wages paid in the community are high. The increases authorized by the Commission during the year have not been sufficient to enable us to keep a full force of nurses and attendants in the hospital. The average daily number of all employees during the year was 318.06, with 9.38 per cent of vacancies. The average daily number in the ward service was 173.31, a shortage of 15.45 per cent. This reduction in the number of nurses has, of course, affected the standards of care in the wards. It has not been possible to employ as many patients as should have been furnished occupations. More restraint and seclusion has been made necessary than we feel to be desirable under ordinary circumstances. We have been considerably hampered in dealing with the large number of visitors who call at the hospital to see their relatives and friends. It is interesting to note that there were 48,732 visitors at the hospital department during the last year. It is fairly reasonable to assume that the shortage of ward employees has been responsible to a considerable extent for the number of accidents, injuries and escapes which have occurred.

The impossibility of competing with outside conditions has interfered with our filling vacancies in the medical staff. A lack of suitable quarters for physicians has, of course, had something to do with this difficulty. It would seem that the necessity of a material increase in salaries and wages is readily apparent.

The work of the out-patient department of the hospital includes the supervision of patients in family care, those at home on visit, the after-care of cases discharged from the custody of the hospital, and medical advice given to numerous persons who visit the hospital for the purpose of consulting members of the staff on matters pertaining to their own mental welfare or that of their family or relatives. The patients who have been allowed to go home on visit, or who have left the hospital temporarily for family care, are visited at frequent intervals by the social service workers of the hospital. Patients who are at home on visit are also required to present themselves at the hospital at regular intervals for observation. Considerable supervision is also given to former patients who have been discharged but who are kept under observation by the social workers and the physicians. Some cases appearing for consultation are accepted as voluntary patients. Others are referred to their family physicians or to the Psychopathic Department. The following is a report of the movement of population of patients under the supervision of the out-patient department.



*Occupations and Industries.*

A plan for more generally extending the occupational work in the wards of the hospital has been instituted, and Miss Alice G. Hunter, R.N., was appointed occupational therapist on Oct. 20, 1919. Much interest has been shown by the patients, and it is hoped that this department can be developed materially during the coming year. Patients, who for various reasons are unable to do industrial work in the shops, are encouraged to interest themselves in activities of some sort in the wards. It is hoped that classes in purely re-educational work can be organized later.

Industrial work in the East Group consists of basket making, the manufacture of rugs, weaving, lace making, embroidery, knitting, crocheting, sewing, etc. About 100 patients are employed in the industrial room of the East Group daily. The estimated value of the articles made during the year was \$13,977.61. The work of the industrial room in the West Group is done entirely by men.

I wish to call the attention of your Board to the necessity of acquiring more farm land at the earliest possible moment. The hospital site, as you know, consists of only 233 acres, all of which is needed for building sites and gardening, not to mention the room required for the recreation of patients. The natural development of the hospital will not leave any space available for farming, nor is it possible to acquire any more land in this vicinity at a price which would justify its use for such purposes. A study of the agricultural needs of the various hospitals made recently by an expert representing the Commission on Mental Diseases shows that an institution of the size of the Boston State Hospital should cultivate approximately 700 acres of land. I would suggest that arrangements be made to purchase several hundred acres of farm land within ready reach of the hospital. We should maintain a farm colony and do intensive agricultural work on a larger scale. This would materially reduce our per capita cost of maintenance and supply the hospital with fresh vegetables and other garden products badly needed. It would also make it possible for us to establish a dairy and raise poultry.

## GRAFTON STATE HOSPITAL.

Opened in October, 1877. Present capacity, 1,146.

Valuation of the plant, per capita of capacity, \$1,906; real estate, \$1,703; personal, \$203.

Daily average number of patients on books, 1,925.62; in hospital, 1,831.77; in family care, 16.93; on visit or escape, 76.92.

Number on books Oct. 1, 1919, 1,907; in hospital, 1,826; in family care, 12; on visit or escape, 69.



All admissions, 52.

Admissions as insane, inclusive of temporary-care cases, 52.

First cases of insanity, 21.

Voluntary admissions, 9.

#### *Finances.*

Expenditures from maintenance funds, \$593,269; total receipts, \$22,768, being \$2,451 from private patients, \$13,306 from reimbursing patients, \$7,011 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$6.11.

Weekly per capita cost of whole service, \$2.11; ward service, \$0.77.

One person employed for every 5.36 patients; 1 nurse for every 11.48 patients.

Average monthly wage for all persons employed, \$49.41; for nurses, \$38.93; men, \$39.94; women, \$38.06.

#### *Extract from Trustees' Annual Report.*

As a result of a recent act of the Legislature, the Grafton State Hospital has at last become the institution which its name would indicate. In 1901 the sum of \$25,000 was appropriated for a farm colony for what was at that time the Worcester Insane Asylum. Five hundred acres of land were purchased for this purpose near North Grafton. Chapter 659 of the Acts of 1912 provided for the removal of the institution from the Summer Street location to the Grafton Colony, and appropriated \$400,000 for the construction of buildings at that place. The act requiring the removal from Worcester was repealed in 1916. The association of the Grafton State Hospital with the old building on Summer Street has been finally terminated by enactment of the Legislature at its last session.

#### *Extract from Superintendent's Annual Report.*

The general health of the hospital population has been remarkably good for the year. Only 5 sporadic cases of influenza have appeared, 1 case of mumps (employee), and 3 cases of whooping cough. We are glad to report that the usual large number of diarrhœa cases did not occur during the summer months. We had 5 sudden deaths during the year, which were turned over to the medical examiner for investigation, and the same were investigated by the representative from the Commission on Mental Diseases.

The following operations were performed by our consulting surgeon during the year: —

Amputation — toes,	1
Intestinal obstruction,	1
Tonsillectomies,	5
Dilatation and curettage,	1
Glands of neck,	1
Fatty tumor of back,	1
Cancer of lip,	1
Ventral fixation of uterus,	1
Growth from lower jaw (probably malignant),	1

#### *Dental Work.*

This work has been done by Dr. A. J. Harpin at the Worcester Department, and by Dr. Burton E. Loring at the Grafton Department.

They have devoted one-half day a week, and have been subject to call and advice when necessary. I recommend that at least one whole day a week should be given to this work.

The work in the training school was carried on as usual under the direction of Miss P. J. Porteous, superintendent of nurses, until October 1, on which date she resigned to start a rest home for convalescents. We all regretted to have her leave the service, and wish her all possible success in her new venture. Since October 1 the school has been under the direction of Mrs. Ena Benson, who had charge of the school at the Worcester Department.

The graduating exercises were held Sept. 24, 1919, graduating 8 nurses. The affiliation with the Bellevue and Allied Hospitals, New York, has been canceled, and at present the school is affiliated with the training school at the Boston City Hospital. Affiliation began Sept. 2, 1919.

The employee situation, while not quite as bad as a year ago, must be looked upon as serious, particularly in the nursing and domestic departments.

It is impossible to obtain and keep a sufficient number of nurses to man our wards properly. If some means could be provided, whereby the nurses who graduate from our training school could be induced to stay with us as charge or graduate nurses, thus assuring proper ward supervision, it would help materially in the work. Only one of the number who graduated in September last is with us at present; the others have gone to more lucrative positions in other places.

The domestic department is always below quota.

In the farm department the teams have to remain in the barns at times on account of the shortage of men.

#### *Farm.*

The farm yielded very good crops in spite of the wet season. There would have been an extra good yield of potatoes if they had not been struck with blight. It was estimated that crops would have yielded 6,000 bushels; however, we harvested about 3,500 bushels.

It was not possible to clear any great area of land, owing to the fact that it was necessary to use our teams and farm help much of the time on the construction of the coal trestle.

The Valley Farm property, for which we had great hopes this year, was not in a suitable condition to be worked, on account of so much rain. It was not considered best to drain this thoroughly for fear it would draw too much water away from the wells that furnish water for the institution. After a permanent water supply is furnished for the hospital, and this section is properly drained, you may look for good crops from this part of the farm.

The plot of land of about 16 acres, opposite the waiting station at the Oaks Group, has been cleared of bushes and fenced, making this available for pasturage for the herd of cows at this group.

Bushes and small growth were also cut from an area of about 8 acres in the so-called Summit pasture, which later on will be more thoroughly cleared for tillable land.

#### MEDFIELD STATE HOSPITAL.

Opened in May, 1896; present capacity, 1,540.

Valuation of the plant, per capita of capacity, \$1,194; real estate, \$1,047; personal, \$147.

Daily average number of patients on books, 1,601.59; in hospital, 1,543.89; in family care, 14.68; on visit or escape, 43.02.

Number on books Oct. 1, 1919, 1,605; in hospital, 1,539; in family care, 15; on visit or escape, 51.

All admissions, 75.

Admissions as insane, inclusive of temporary-care cases, 75.

First cases of insanity, 26.

Voluntary admissions, 4.

#### *Finances.*

Expenditures from maintenance funds, \$547,629; total receipts, \$15,841, being \$2,059 from private patients, \$10,195 from reimbursing patients, \$3,587 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$6.72.

Weekly per capita cost of whole service, \$2.19; ward service, \$0.89.

One person employed for every 5.24 patients; 1 nurse for every 10.14 patients.

Average monthly wage for all persons employed, \$50.26; for nurses, \$39.73; men, \$40.06; women, \$39.47.



*Extract from Trustees' Annual Report.*

To combat the increasing scarcity of labor and the rising prices of certain necessary commodities we are convinced that labor-saving devices should be installed wherever practicable in furtherance of the start already made, viz., automobiles, auto trucks, farm tractors, milking machinery, ice-making machinery, etc., and that the industrial shop's present activities should be largely increased. The space at present available for this department is entirely inadequate, but with more space there is good reason to believe that this department could be developed to such an extent as to be able to do practically all of the minor repair work required in the institution, viz., mending, sewing, weaving, knitting, upholstering, rug making, frame making, brush making, repairing of tin ware, basketry, canning and preserving, etc. The farm should be made to yield all the hay, beans, potatoes and corn required by the hospital. While it is now necessary annually to purchase varying quantities of these staples, it would be more profitable to raise them, provided acreage were available. With 400 tillable acres this could be done. Of the hospital's 609 acres there is much wild land, less than 200 acres being under cultivation. Last year 3 acres were reclaimed; during this past season another 8 or 9, and probably another 50 acres can eventually be reclaimed. Contiguous to the hospital property, in several small privately owned patches of 10 to 30 acres each, are approximately 100 acres of land on which are a few frame buildings of the usual farmer's cottage type. This is mostly good tillable land, and should be acquired by the Commonwealth for inclusion in the hospital property. Its proposed purchase has the approval of the Commission on Mental Diseases and the recess committee of the Legislature, who visited the hospital September 29. Acquisition of this land, in addition to increasing tillable acreage, would provide buildings suitable, after comparatively small expense for slight alterations, for cottages for certain staff officers. Cottages for these officers are greatly desired, and to build them anew might call for as great an outlay in money as the sum for which it is thought the proposed land purchase could be made. Further, the acquisition of this land would furnish added protection for paroled patients by placing under hospital jurisdiction land and buildings which under private control, in their present proximity to the grounds, are potential menaces.

*Extract from Superintendent's Annual Report.*

The medical work suffered to some extent during the early part of the year, but the return of the assistant superintendent in May, and the filling up of the medical staff in September, permitted, in the latter months of the year a re-establishment of orderly medical routine work.

In addition to the proper examination of all new patients and the presentation at staff meetings, a systematized effort was made to examine all old cases not previously examined according to our present methods.



It was hoped that the signing of the armistice would result in relieving the help situation in the hospitals. The experience at this hospital was that gradually, as the soldiers returned, there was less difficulty in getting male employees, and that as time went on a better grade of male employees was obtained. This was true especially of ward employees.

Difficulty was experienced all through the year in obtaining an adequate number for the farm, and especially in getting and holding those who held the higher positions in farm work, such as herdsman.

Great difficulty has been encountered during the whole year in getting female employees for all departments. This was particularly true for ward employees and domestic help, and, although we were able to secure an extra raise of pay for these two groups, the situation remains critical.

Although there are undoubtedly many factors entering into this problem, it really seems that there is an actual general shortage of female help in this part of the country. Improved living conditions and higher wages will undoubtedly assist to some extent, but I am rather of the opinion that a solution cannot be arrived at until there is a general readjustment of vocations as relates to the male and female industrial agents.

#### *Farm.*

On the whole, this has been a very successful year for farming. Crops, as a rule, were up to the average, and in some instances above. In order to care for increasing root crops it was found that the provisions made two years previous for storing our roots were absolutely inadequate. An addition to the root cellar became necessary in order to properly care for our farm products.

#### GARDNER STATE COLONY.

Opened in October, 1902. Present capacity, 748.

Valuation of the plant, per capita of capacity, \$955; real estate, \$760; personal, \$195.

Daily average number of patients on books, 857.84; in hospital, 795.55; in family care, 41.85; on visit or escape, 20.44.

Number on books Oct. 1, 1919, 885; in hospital, 805; in family care, 47; on visit or escape, 33.

Received by transfer, 79.

#### *Finances.*

Expenditures from maintenance funds, \$285,072; total receipts, \$7,396, being \$896 from private patients, \$1,072 from reimbursing patients, \$5,428 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$6.42.

Weekly per capita cost of whole service, \$2.42; ward service, \$0.80.

One person employed for every 4.99 patients; 1 nurse for every 11.04 patients.

Average monthly wage for all persons employed, \$55.23; for nurses, \$40.46; men, \$41.58; women, \$38.88.

*Extract from Trustees' Annual Report.*

House Bill No. 393 having become a law now enables the court to commit patients directly to the institution, with the result that the State Colony has received since June 1, 1919, the date the bill was made operative by the Department of Mental Diseases, 3 voluntary patients, 3 temporary-care patients and 11 patients committed by the court in the regular way. This is proving very satisfactory, both to the community about us and to the staff of the institution. Clinics held by the staff in Fitchburg and Athol are more useful now that the patients may be taken to the institution for further study when it is desirable so to do.

We regret to report the resignation of our chairman, Edmund A. Whitman, a member of the Board from the beginning.

At the end of the year we record a full quota of officers and attendants.

Crops from the farm have been abundant, the herd is in good condition, and the institution as a whole is in a highly satisfactory state.

*Extract from Superintendent's Annual Report.*

Since the establishment of the Colony in 1900, and the reception of the patients in 1902, all such patients have been received by transfer authorized by the Commission on Mental Diseases. Chapter 49, General Acts of 1919, amended the law to permit the reception of patients directly from their homes, this being the first step towards making the Colony a district hospital.

As provided in the act, the Commission on Mental Diseases established the district for the Gardner State Colony and declared the act to be in operation from June 1, 1919.

I believe an important step forward was made in changing the law permitting commitments, feeling that the time had arrived when the Colony had become so organized that it could serve in a much better way the community in which it is situated. We have always assisted in every way possible members of the community requiring advice for proper care of relatives, and we many times were requested to receive patients here for treatment. We have always striven to enlist the co-operation, interest and good will of the community in which we are situated, and it is a source of gratification that where hospital treatment is necessary, relatives request that patients be committed to us, actuated, no doubt, largely by their desire to have their friends and relatives near home and easy of

access for visitation. The beneficial effect of direct admissions is clearly seen in our medical staff and the staff of officers, whose interest has increased materially in these more recent cases. This is very natural, and because of it the result should be a material benefit to the patients.

The monthly clinics held in Fitchburg and Athol have been continued, and during the year we have seen at the clinics or in consultation 58 persons requesting advice. It is important, we believe, to hold and continue clinics of this kind, but we believe our best work for the community is in seeing individual cases when called upon, which we are ever ready to do without expense to the patients or relatives, believing that the work of a hospital of this kind does not begin and end at the front door, but extends out in many directions into the community. Even though the detail work necessary at the hospital is ever on the increase, it seems to me that this extension work into the community is of even greater importance.

One of the most effective methods of reaching the public and enlisting their interest and co-operation in the hospital work has been the holding each fall of our

#### *Cattle Show and Fair.*

This has been the means of bringing more interested visitors to the hospital than anything else we have done or could have done. In September last we held our fifth annual fair, a two-day event, the first day for the patients only, and the second day for the public. On public day there were upward of 3,000 people who were permitted to visit every part of the hospital, and special features were prepared for them. This is becoming each year a larger task, but it is one into which every officer and employee of the institution enters with much enthusiasm, and it is only by this active co-operation and splendid spirit of working for the institution that the fair can be successfully conducted. The educational effect upon our visitors is, I believe, far-reaching. A great many of them would not ever interest themselves or visit a State hospital unless attracted to it in some such way as this, but once having visited they obtain a different understanding of what the Commonwealth is doing for its defectives. A small admission charge is made, and this money is used for entertainment for the patients during the winter months. Fair Day has become the most interesting day of the year for our own people and that portion of the thinking public whose interest we are anxious to enlist.

#### *Occupation.*

Occupation treatment for patients for which the Colony was established has been continued and somewhat added to during the past year. All vegetables, milk, eggs, poultry, pork, etc., have been raised on the farm, none of these having been purchased. Development of additional land on which to raise more hay for stock has been continued.

The inside industries have been continued. All clothing, both for men and women, has been made. No wearing apparel, except heavy felts



and rubbers worn by men in winter, has been purchased. All cloth for overalls, jumpers, shirts, towels and underwear has been woven on looms. A new industry recently started is the weaving of bedspreads. We believe that the industries from which the patients themselves receive direct benefit are the best, and for the Commonwealth the most economical, and our special effort has been to continue to develop the productive occupations, while at the same time the various arts and crafts instruction has been given and a large amount of finished articles sold to persons who visit the institution and wish to purchase the same. The receipts from such sales during the year have amounted to \$1,465.25. The direct benefit to patients from occupation is the effect it has upon their daily lives, making them more contented, more quiet, more easily and economically cared for, and, by continued application and a centering of interest upon their work, a gradual putting behind of their abnormal ideas and beliefs necessary before their re-establishment in their home environment. The adjusting of an unbalanced mind so that the patient may again return home and become self-supporting is the most important thing to be hoped for, inasmuch as the great majority of our patients have lost a part of their mental activity, and one cannot expect to replace brain cells once destroyed. Many will be able to adjust themselves to their hospital environment, become efficient and productive workers, but not recover mentally sufficient to return home. In fact, the larger proportion of our patients will be of this type. Many of our patients have been in hospitals for years, and will of necessity continue to remain under care.

The unsettled conditions existing during the past two years throughout the world have had its effect upon obtaining employees when vacancies occurred and retaining them when obtained, but our difficulty has been less than might reasonably have been expected. It has been only rarely necessary to resort to an employment bureau, and the shortage has not been marked at any time.

The "turnover" has been 2.24, there having been employed during the year 354 different persons to fill 158 positions, as compared with 2.46 in 1918, and 2.12 in 1917. An analysis of this shows that by far the greater number of changes occurred in a small number of positions, notably male attendants, especially those engaged to direct patients in outdoor employment.

#### *Diversion and Recreation.*

Dances for the patients have been held during the winter months. A motion picture machine was purchased early in the year, and motion pictures shown weekly through the winter.

#### FOXBOROUGH STATE HOSPITAL.

Opened in February, 1893. Present capacity, 412.

Valuation of the plant, per capita of capacity, \$1,965; real estate, \$1,719; personal, \$246.



Daily average number of patients on books, 485.47; in hospital, 447.02; in family care, .76; on visit and escape, 37.69.

Number on books Oct. 1, 1919, 515; in hospital, 465; in family care, 1; on visit or escape, 49.

All admissions, 120.

Admissions as insane, inclusive of temporary-care cases, 120.

First cases of insanity, 47.

Voluntary admissions, 1.

### *Finances.*

Expenditures from maintenance funds, \$198,632; total receipts, \$9,603, being \$4,028 from private patients, \$3,252 from reimbursing patients, \$2,323 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$8.34.

Weekly per capita cost of whole service, \$3.59; ward service, \$0.98.

One person employed for every 3.76 patients; 1 nurse for every 9.73 patients.

Average monthly wage for all persons employed, \$58.37; for nurses, \$41.49; men, \$42.84; women, \$39.44.

### *Extract from Superintendent's Annual Report.*

Our daily staff meeting at 8.30 A.M. is a routine hospital procedure, acquainting the entire staff of the institution's activities, and most of those having the privilege of attendance recognize the educational advantages as well. During the year there were 125 patients—73 males and 52 females—presented at these meetings for consideration as to diagnosis, treatment, prognosis and dismissal or discharge. We find the experiment of having both social service workers and industrial teachers present of value, and the individual opinions of those present are a matter of permanent record and are available.

The formal opening of the laboratory was held on June 2. It is proposed that this laboratory will afford not only opportunities for research work, but prove of practical educational advantage for undergraduates, and a stimulus to more intensive clinical work.

Under the direction of Mr. Henry A. Turner and Miss Elsie C. Harts-horn, vocational teachers, classes have been organized and maintained in both the male and female services, and the weekly movies with occasional special parties have provided reasonably satisfactory diversion and entertainment.

## MENTAL WARDS, STATE INFIRMARY.

Opened in October, 1866. Present capacity, 673.

Daily average number of patients on books, 711; in hospital, 701; on visit or escape, 10.

Number on books Oct. 1, 1919, 513.96; in hospital, 506.44; on visit or escape, 7.52.

All admissions, 26.

Admissions as insane, 26.

Received by transfer, 34.

First cases of insanity, 25.

*Extract from Superintendent's Annual Report.*

The tremendous shortage in the number of nurses on our wards has made the year a hard one, necessarily increasing the work for the few that we have, and also making it exceedingly hard to form and carry out plans for the training school and the ward service in a satisfactory way.

In accordance with the request of the Commission on Mental Diseases and of Dr. Houston, superintendent of the Northampton State Hospital, arrangements were made to take into the training school and hospital wards members of the Northampton State Hospital school, which school, in accordance with the requirements for the hospitals for the insane, is expected to affiliate with some other hospital where there is opportunity for experience in general medical, surgical and maternity case work. Already two nurses have come to the institution for six months' service in special lines of work, which I hope will in every way be of profit to them. We are happy in this special privilege of extending the opportunities and whatever assistance and helpfulness may be within our power to these pupil nurses of another hospital.

## BRIDGEWATER STATE HOSPITAL.

Opened in September, 1886. Present capacity, 818.

Daily average number of patients on books, 833.20; in hospital, 816.25; on visit or escape, 16.95.

Number on books Oct. 1, 1919, 837; in hospital, 821; on visit or escape, 6.

All admissions, 71.

Admissions as insane, 71.

First cases of insanity, 55.

*Extract from Annual Report of Medical Director.*

An intelligent study of cases committed to the hospital for observation and treatment requires that accurate information concerning the personal and family history of the patient be obtained. Data bearing upon conditions leading to the offence and subsequent commitment should also be secured, and proper after-care provided for such patients as are released to the community. A social service department, made up for the present of at least one field worker, should be established the coming year.

Patients have engaged in baseball games and out-of-door sports during the summer months, and the moving pictures continue to be a popular form of amusement during the cooler weather. It is no doubt desirable that a greater variety of entertainment should be furnished but our attendant quota is at present too low in number to permit more frequent assembling of patients without crippling the ward service. It is believed, however, that with sufficient addition to our attendant corps a more extended program, including musical entertainment and lectures, might be arranged.

Coincident to the falling off in commitments to the prison there has been a steadily growing demand for inmate labor from the hospital. We have in some measure been able to supply the need, more especially that of the farm, where the daily detail shows general increase over that of last year. This service has been voluntary on the part of the patients, who have apparently enjoyed the work and the added privileges. Comparatively few attempts to escape have been made, with but one remaining away at the close of the year.

MONSON STATE HOSPITAL.

Opened in May, 1898. Present capacity, 967.

Valuation of the plant, per capita of capacity, \$1,036; real estate, \$823; personal, \$213.

Daily average number of patients on books, 1,007.74; in hospital, 912.53; on visit or escape, 165.21.

Number on books Oct. 1, 1919, 1,072; in hospital, 922; on visit or escape, 150.

All admissions, 172.

Insane admissions, 6; decrease for the year, 9.

Sane epileptics admitted, 166; increase for the year, 2.

First cases of epilepsy, 129.



*Finances.*

Expenditures from maintenance funds, \$305,168; total receipts, \$18,877, being \$7,999 from private patients, \$7,038 from reimbursing patients, \$3,840 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$6.40.

Weekly per capita cost of whole service, \$2.58; ward service, \$0.99.

One person employed for every 5.64 patients; 1 nurse for every 12.06 patients.

Average monthly wage for all persons employed, \$63.26; for nurses, \$51.97; men, \$53; women, \$50.20.

The general statistics for the year are as follows:—

*Extract from Trustees' Annual Report.*

The number of patients in the institution has decreased since the beginning of the war. The shortage of help made the labor of such patients as were able to work more acceptable in the community, and a large number found jobs which many of them have succeeded in retaining. In other cases patients who were able to work even a little have been taken home and cared for by their families, as their labor seemed to be of sufficient value. Now it is likely that many of these will eventually return to the hospital. Under home conditions and the responsibility of caring for themselves quite a number have broken down, and have died of acute illness at home.

Our clinics have now been renewed, and are held as formerly at Springfield, North Adams, Greenfield, Pittsfield and at the hospital. The number at these separate clinics is small, but it seemed worth while to keep them up, as it helps not only patients in the western part of the State but friends of patients who wish to keep in touch with hospital inmates.

It appears that by employing married couples we could relieve the extreme shortage of female ward workers. The men's wards have been more fully supplied, and yet the changes in these wards have been very frequent. The women's wards are never up to their full quota, and sometimes the help there is 50 per cent short.

The lack of women who apply for positions as nurses to take up the training has been disturbing. It seems evident that some plan must be devised whereby the scale of compensation offered by the Commonwealth should approximate the standard of other employers of labor.



*Extract from Superintendent's Annual Report.*

The efficiency of patients as helpers in some instances where no hired labor could be obtained is worthy of notice. A special report on the general efficiency of our patients covering all types has been printed.

Considerable work has been done on our greenhouse during the last two or three years. Formerly this greenhouse was located at the south extremity of our property, but after the women's buildings were completed, the passing by of men employed at the greenhouse was not considered the best arrangement. We have therefore gradually transferred these buildings to another site, and this year they are in complete working order, though of course they do not cover any great amount of space yet. The building that was left at the old site was formerly a slaughterhouse at the old institution. It was cleaned and remodeled with a heating plant, and is very well adapted for isolation of any serious condition. I have no doubt that the building will also prove useful as a storage place for flour at certain times.

The clinics at Springfield Greenfield, North Adams and Pittsfield have been renewed, and all the other activities of the hospital which were slowed up during the war have assumed normal activity.

*Report of School, Children's Colony.*

We have managed to keep an average of between 70 and 80 children in school each day; of course the classes had to double up in order to do this. We have had an average of 32 boys and from 44 to 48 girls daily.

The boys and girls had company gardens this summer. We opened up a small garden, 10 by 18 feet, just south of the girls' garden, for beans, and also a small rhubarb patch in addition to the boys' garden. We were able to have a temporary water pipe run to the boys' garden. This saved the children carrying quantities of water a long distance. We made a few new flower beds in front of the service building. There were also set up some cement seats, urns and a bird bath which were sent to us. A trellis was erected for rambler roses.

The boys during the warm months started excavating and filling in for a playground just back of the boys' building. They were very much interested in this work.

The entertainments for the year have been of a patriotic nature so far as possible, as just at this time that seemed most desirable. On Christmas we had the usual tree for the children in the morning; after dinner we had an entertainment which consisted of a play, "A Christmas Strike," followed by songs and recitations.

During the summer we had picnics to Forest Lake, automobile rides to Springfield and in the vicinity of Palmer, pleasure trips, berrying excursions, and hikes through the woods for the purpose of nature study.

## MASSACHUSETTS SCHOOL FOR THE FEEBLE-MINDED.

Opened in October, 1848. Present capacity, 1,498, — at Waltham, 1,183; at Templeton, 315.

Valuation of plant, per capita of capacity, \$758; real estate, \$592; personal, \$166.

Daily average number of patients, 1,513; decrease for the year, 73.

Number, Oct. 1, 1919, 1,533.

*Finances.*

Expenditures from maintenance funds, \$481,177; total receipts, \$11,532, being \$2,443 from private sources, \$3,074 from reimbursing patients, and \$5,015 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$6.

Weekly per capita cost of whole service, \$2.08; ward service, \$0.81.

One person employed for every 6.29 patients; 1 nurse for every 11.78 patients.

Average monthly wage for all persons employed, \$56.94; for nurses, \$41.61; men, \$43.96; women, \$40.48.

The general statistics for the year are as follows: —

	Males.	Females.	Totals.
Number present Sept. 30, 1918, . . . . .	925	626	1,551
Admitted during the year, . . . . .	255	82	337
School cases, . . . . .	79	24	103
Custodial cases, . . . . .	96	31	127
By transfer, . . . . .	—	3	3
From visit, . . . . .	62	22	84
From escape, . . . . .	5	—	5
Nominal admissions from visit, . . . . .	6	1	7
Nominal admissions from escape, . . . . .	7	1	8
Whole number of cases within the year, . . . . .	1,180	708	1,888
Dismissed within the year, . . . . .	265	90	355
Discharged, . . . . .	40	9	49
Capable of self-support, . . . . .	8	2	10
Improved, . . . . .	14	2	16
Not improved, . . . . .	18	5	23

	Males.	Females.	Totals.
Dismissed within the year — <i>Concluded.</i>			
Died, . . . . .	79	38	117
Transferred, . . . . .	—	5	5
On visit, . . . . .	115	38	153
On escape, . . . . .	31	—	31
Number present Sept. 30, 1919, . . . . .	915	618	1,533
State, . . . . .	905	611	1,516
Private, . . . . .	10	7	17
Daily average number of patients for the year, . . . . .	904	609+	1,513+
Number at school Sept. 30, 1919, . . . . .	646	618	1,264
Number at Templeton Colony, Sept. 30, 1919, . . . . .	269	—	269
Applications for the year, . . . . .	—	—	527

*Extract from Trustees' Annual Report.*

The past year has been a trying one, beginning with a recurrence of the dread epidemic of influenza, when in February at the Colony we had 245 cases with 15 deaths. For the first time since we moved our big boys to Templeton we had occasion for a burial lot, and so purchased one in the local cemetery.

We suffered, too, from insufficient and unsatisfactory help; it has been hard to obtain suitable people for our work. It was particularly hard to obtain *outside* men.

The presence of several defective delinquents has made life more difficult. Under advice, the superintendent succeeded in discharging two of the most troublesome mischief makers, and for a time there was peace. Others have come to the surface, and until we can have sufficient funds to command a higher class of help, the outlook for relief is not bright. It is to be hoped provision will soon be made for the custody of this class, so that the School for the Feeble-minded may be relieved of their presence. The law exists, but its enforcement is lacking.

So far as this school is concerned, if the defective delinquents could be kept out we should have no cause of complaint; but they come usually by commitment, so that we cannot refuse them. We feel that we should now express our conviction of the importance of the proper segregation and care of this class of defectives. If the question was of sufficient moment to result in legislative action, should not the remedy provided by the Legislature be enforced? That act was passed *six* years ago, — chapter 796, Acts of 1913.

The adoption of national prohibition has resulted in emptying many of the prisons of the State, so that the selection and partial rearrangement of one or more of these State prisons is all that would be necessary to supply a proper place of detention. Provision for the care of the defective



delinquents having been made, the courts and the public would soon recognize the distinction between them and the criminal of normal ability. The time seems opportune to press this matter upon the attention of the Governor and Council.

Manufacturers and other employers of labor are beginning to recognize the distinction between the normal and the defective, and are seeking means to handle the feeble-minded. This awakening on the part of such an important portion of the business world to the necessity of a different method of treating the feeble-minded seems to us a most encouraging sign of the spreading of a knowledge which has been before us for so long. Should we not use our every endeavor to aid in the dissemination of this information about the feeble-minded, to the end that they may receive the charitable and comprehensive treatment to which, as our unfortunate fellow beings, they are entitled?

*Extract from Superintendent's Annual Report.*

*Health.*

At the time of the epidemic of influenza at Waverley, in September and October, 1918, no cases appeared at Templeton Colony. Early in February of the present year the disease suddenly appeared in a most virulent form at the Colony, and of the 298 patients and 49 employees present, 229 patients and 16 employees, or 70 per cent of the total number, were attacked. Dr. Raymond and a group of nurses from Waverley turned the entire colony into a hospital, and for seven weeks gave the sick people unremitting care and attention. Fifteen of the patients died, and many were dangerously ill for a long time. It was fortunate that the epidemic at the Colony did not coincide with that at the parent school at Waverley. No words can do justice to the devotion and forgetfulness of self shown by Dr. Raymond and our splendid nurses.

*Farm Products.*

The total value of the farm products for the year at Waverley and at Templeton Colony was \$100,321.65. These were produced under great difficulties. At no time was there one-third of the required and usual number of paid farm employees to supervise the boys. A large number of the more efficient boys have been taken home to work for wages. The few men available were obliged to do more than double duty. At Waverley four efficient women attendants supervised a large number of young female patients, who weeded, cultivated and harvested the abundant crops of vegetables and fruit for the food supply. Incidentally, they became tanned and athletic, and greatly enjoyed the outdoor life.



*School.*

Throughout the stress of the war the essentially educational character of the school has been maintained under many difficulties. All of our male instructors either enlisted or were drafted into the service. With new and inexperienced employees it has been difficult to hold to the principle that every boy and every girl was sent here to be developed and improved according to his or her capacity.

Nearly every male moron over fifteen years of age has been taken away by his friends to go to work for good wages. Few morons of this age have been admitted. The work of the schools and training classes has been largely with young boys, many of them capable of great improvement. A visit to the school and classrooms will show groups of alert and interested pupils, under the instruction of highly efficient teachers. The recent addition of a moving-picture outfit will greatly add to the facilities for instruction and recreation.

*Colony.*

The Templeton Farm Colony of the school has had a successful year, notwithstanding the handicap of the epidemic of influenza and the scarcity of help. There has been an average of less than one-half the required number of employees at the Colony, compelling very long hours and hard work on the part of Mr. Donnell and his assistants; but the boys have been well cared for, and have been happy. The crops have been abundant, although it had been very difficult to carry on the farm operations and to do the harvesting. The boys have developed a capacity for self-supervision and interest in the success of the farm work which we did not believe possible. We have not been able to develop as much rough land as in previous years.

*Applications.*

The rated capacity of the school, including Templeton Colony, is 1,528 beds. At the close of the year there were 1,580 patients actually present.

There were 611 applications for admission during the year. Of these, 114 were by personal application, 419 by letter and 78 by telephone. We are able to admit new cases only as vacancies are made by removal or death of patients from the various houses, and the choice of the case to be admitted to fill a vacancy depends upon the sex, age and mental age of the applicant, according to the vacant beds available at that time. For instance, the adult female moron is seldom discharged, and vacancies seldom occur in the buildings devoted to the care of this class. We cannot properly care for a young helpless idiot in the houses devoted to the brighter moron children. It is only just to the taxpayers that the different cities and towns in the State should be served equally in selecting cases for admission. Certain cases, like a recent application for the ad-

mission of the helpless child of a sick, indigent widow, with three other children to support, obviously require immediate attention. There are now 796 applications on file, and in this number are many who are very troublesome and dangerous members of society. The crying need for institutional provision is obvious.

#### *Out-patient Clinics.*

The staff of the school has continued the out-patient mental clinics at the school at Waverley each Thursday, and at Worcester, Fall River and New Bedford once each month during the school year, and also one clinic at Hyannis and one at Falmouth. Several other cities have made requests for similar clinics. At these clinics during the past three years we have given advice concerning a larger number of patients than are now present in the school. In other words, we are helping to care for as many patients in their own homes as are being supported by the State in the school itself. Many patients are thus safely kept at home who would otherwise be State charges. It costs over \$1,000 to house a patient in the institution, and over \$300 per year to support him. It is safe to say that our out-patient clinics save the State scores of thousands of dollars every year.

During the year, at these clinics 662 different patients have been considered for diagnosis, prognosis or advice as to care and treatment, and of these, 541 were given a thorough examination. Advice was given concerning the other patients by letter or telephone.

#### *After-Care and Social Service Work.*

A trained visitor from the school is kept busy visiting recently discharged patients, those at home on trial, and those not returned from visit, as well as visiting the families of patients whose friends wish to take them away from the school, in order to determine the wisdom of the proposed release. At the present time there are 278 patients who, although still enrolled as members of the school, have been at home for varying periods. This number includes 53 out on trial, 159 not returned from visit, and 66 who have run away during the past two years. The visitor gathers information to enable us to determine whether the patient should be allowed or encouraged to remain at home or returned to the school. The above figures illustrate the need of definite legislation authorizing a real continuing parole of feeble-minded patients. At the present time these people are patients of the school, but we have little real authority to compel regular reports, to require good behavior, or to return them to the school if necessary.

To make this after-care really effective, we need a law similar to the Minnesota law of 1917, which authorizes commitment to the custody of the Board of Trustees or to the Commission, giving the Commission authority to place the patient in the institution, or to allow him to remain

at home during good behavoir, with the power to place him in the institution if he misbehaves or needs institutional care at any time. A similar plan of indefinite extra-institutional supervision of the feeble-minded in this State would allow us to release many patients now supported by the State, and would serve to control many feeble-minded persons who under present conditions are under no control whatever.

WRENTHAM STATE SCHOOL.

Opened in June, 1907. Present capacity, 1,325.

Valuation of plant, per capita of capacity, \$855; real estate, \$709; personal, \$146.

Daily average number of patients, 1,207; increase for the year, 20.

Number, Oct. 1, 1919, 1,206.

Finances.

Expenditures from maintenance funds, \$348,968; total receipts, \$4,181, being \$884 from private sources, \$482 from reimbursing patients, \$2,815 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$5.54.

Weekly per capita cost of whole service, \$1.71; ward service, \$0.64.

One person employed for every 7.52 patients; 1 nurse for every 13.92 patients.

Average monthly wage for all persons employed, \$56.02; for nurses, \$38.70; men, \$38.98; women, \$35.98.

The general statistics for the year are as follows: —

	Males.	Fe- males.	Totals.	Males.	Fe- males.	Totals.
Number remaining Sept. 30, 1918, . . . .				506	706	1,212
Admitted within the year, . . . .				144	144	288
1. By commitment, . . . .	70	72	142			
2. By transfer, . . . .	—	2	2			
3. Returned from visit, . . . .	38	36	74			
4. Returned from escape, . . . .	1	1	2			
5. Returned nominally from visit, . . . .	26	33	59			
6. Returned nominally from escape, . . . .	9	—	9			
Whole number of cases within the year, . . . .				650	850	1,500



	Males.	Fe- males.	Totals.	Males.	Fe- males.	Totals.
Dismissed within the year, . . . . .				131	163	294
7. Discharged, . . . . .	38	43	81			
8. Transferred, . . . . .	—	2	2			
9. Died, . . . . .	20	15	35			
10. On visit Sept. 30, 1919, . . . . .	57	102	159			
11. On escape Sept. 30, 1919, . . . . .	16	1	17			
Remaining Sept. 30, 1919, . . . . .				519	687	1,206

*Extract from Trustees' Annual Report.*

The change in the policy of the State, with its tendency toward centralized control, has left the trustees of institutions for the care of the mentally disordered and defective a reduced responsibility as to physical features and business direction. But it has placed no bounds upon the possible interest of these officials in their institution, nor has it lessened necessarily their active participation in its management. If their duties in this respect have become somewhat hazy, they are not in any degree inhibited from a lively and sustained share in solving the problems of each year and every day. If less in command, they are uncurbed as advisors.

The experience of the trustees of the Wrentham State School has been a continuing demonstration of the possibilities of undiminished interest and of practical value in the close relationship and complete co-operation of the Board, the superintendent and the entire personnel of the organization.

The legislation of the past year, accomplishing the consolidation of the State's departments, avoided the elimination of boards of trustees or further alteration in their functions. It also, with appreciation of the distinct and very great importance of this class of institutions, retained it as a separate feature of the government. The Legislature wisely, in our opinion, avoided a classification of the State's activities by a physical standard as "institutions," and preserved the recognition of the varying purposes for which institutions exist.

Aside from the active share in the institution's management, and besides its concern in the State's advance in policies as to the broad problem of the care and training of the feeble-minded, one distinct and serious duty is laid upon such a Board in considering the individual questions of the release and parole of inmates. The problem of community, as against institutional, care of the feeble-minded comes home in the consideration of placing out. It brings not only the necessity of careful investigation of conditions which will surround the placed-out inmate, but the responsibility of an efficient supervision. With these



comes the whole question of how far the out-patient plan may be carried without defeat of the primary and plain obligations towards the person whose future is directly involved, as well as towards the community.

The Board of Trustees becomes the tribunal to pass upon difficult questions as to the partial release of the inmate. Its monthly meetings take on a very nearly judicial character. Its decisions are vitally important and its responsibility is acute. Its accountability has been emphasized recently by the decisions of the Supreme Judicial Court in two cases in which it was sought to reverse its action in refusal to parole, the high court holding that in the absence of a clear showing of mistake or injustice the reliance upon the trustees is to be final.

Approximately 100 of the persons committed to our care are on parole at a given time. How far this number may be increased without infraction of the State's policy of restraint and without peril to either the charge or the neighborhood is a debatable question. It is our judgment that the plan of placing out might be considerably extended if there were provision for competent supervision. There is an obvious limitation when upon a single social worker is placed the whole responsibility of prior investigation and subsequent supervision.

There are both encouragement and discouragement in our accumulating experience, according as cases justify or defeat the expectation.

*Extract from Superintendent's Annual Report.*

The educational work is arranged in so varied a manner as to meet the needs of all grades and classes from the youngest and most limited child to the oldest and most advanced. This is illustrated by the simple abstract smelling, tasting and tactile co-ordinating exercises in the Seguin rooms to the culmination of these same exercises as expressed by the advanced pupils in the finished product of the domestic science school-room; and again, from the simple blindfolded distinguishing of primary sounds to the symphony of orchestrated music as rendered by the advanced pupils. In the schools and industries, whatever the pupil's mental attainments or limitations, he may obtain all the education of which he is capable. In a well-considered educational curriculum, equally important with the means of obtaining knowledge are the healthy and normal avenues of expression. These are found in our school in the industrial pursuits, in the occupational rooms, kitchens, dining rooms, laundry, household duties, the care of stock, raising of crops, driving teams, building roads and walks, forestry, painting and carpentry, storekeeping and baking. The means of social enjoyment are furnished by well-equipped playgrounds in connection with all dormitories, as well as a general campus; by an abundance of games, beautiful pictures, good books; by a victrola in each dormitory, and, in addition, a piano in all girls' dormitories; and by birthday parties, industry parties, dances, moving pictures, concerts,

school exhibitions and plays, fairs, field days and competitive games. The institutional care of the feeble-minded, therefore, means much more than housing; it means the organizing and co-ordination of a world of educational and industrial activities by which the pupil may attain to his greatest development.

During the last three years there have been a relatively small number of applications for admission of males over fifteen years of age. This rather goes to show that the feeble-minded boy of the working age is able to maintain himself and become a financial asset to his family during a period when labor is scarce and employers are not demanding so high a standard of efficiency in their employees. Such is not the case, however, with the feeble-minded girls of the same age. While these girls of the same mental grade may be able to maintain themselves, yet they have been wholly incapable of directing their lives, or permitting their relatives or guardians to so direct them, as to escape sex difficulties. During the disturbed conditions brought about by the war these defective girls, by their sex offences, have become such a menace that the community is insisting as never before on institutional care for them. It is not on account of mental defect alone that these girls become such problems in the community. In most of these cases an emotional irritability and temperamental disturbance will be found present, their reactions in the community being much more irregular than can be explained by mental deficiency alone. There is little doubt that a large number of the diagnosed mental defectives belong to the temperamentally disturbed class, whose real defect is a temperamental one which, operating from an early age, has prevented the subjects from properly reacting to their environment, and therefore the consequent mental defect present is of secondary importance. This, to a degree, explains why individuals of the same mental age level react very differently to their environment. One group may be good citizens and an asset to the community, while another group of the same mental age level may be altogether harmful agents, and therefore proper subjects for institutional care.

The colony at the site of the new institution at Belchertown has had a successful year. The boys have raised and shipped to the home school at Wrentham large quantities of vegetables and fruit, have pastured and cared for a herd of young stock, and are assisting in preparing accommodations for a permanent farm colony group of buildings.

The help problem has been acute during the entire year, the average shortage of employees on ward service being approximately 35 to 40 per cent. The faithful employees who have remained in the work have carried a heavy load, and of their faithful services to our children I cannot speak too highly.

## THE PRIVATE INSTITUTIONS.

## THE McLEAN HOSPITAL.

Opened in October, 1818. Present capacity, 220.

Daily average number of patients on books, 218.99; in hospital, 207.92; on visit or escape, 11.07.

Number on books Oct. 1, 1919, 219; in hospital, 212; on visit or escape, 7.

All admissions, 140.

Admissions as insane, 130.

First cases of insanity, 64.

Voluntary admissions, 86.

Commitments as inebriates, 5.

Temporary-care admissions, 11.

## OTHER PRIVATE LICENSED INSTITUTIONS.

Number, 28. There were no new licenses granted during the year.

On Sept. 30, 1919, there were under care of these institutions 344 patients; the insane numbered 160. There were 246 admissions of the insane, and 257 dismissals during the year.

The numbers on Sept. 30, 1919, are set forth in the following tabulation: —



NUMBER OF PATIENTS SEPT. 30, 1919.

	TOTALS.			INSANE.			SANE, VOL- UNTARY.			INEBRIATE.			FEEBLE- MINDED.			NON- MENTAL.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Bournewood, George H. Torney, M.D.,	7	13	20	7	11	18	2	2	4	1	1	2	1	1	2	1	1	2
Channing Sanitarium, Walter Channing, M.D.,	4	26	30	2	13	15	8	8	10	1	1	2	1	1	2	1	1	2
Herbert Hall Hospital, Walter C. Haviland, M.D.,	8	11	19	7	11	18	1	1	2	1	1	2	1	1	2	1	1	2
Wellesley Nervine, Frank W. Patch, M.D.,	6	35	41	3	30	33	1	1	2	1	1	2	1	1	2	1	1	2
Sherwood, J. F. Edgerly, M.D.,	2	8	10	1	3	4	1	1	2	1	1	2	1	1	2	1	1	2
Highland Hall, Samuel S. Eaton, M.D.,	1	8	9	1	3	4	1	1	2	1	1	2	1	1	2	1	1	2
Dr. Reeves' Nervine, Harriet E. Reeves, M.D.,	15	37	52	13	27	40	4	4	8	1	1	2	1	1	2	1	1	2
Arlington Health Resort, Arthur H. Ring, M.D.,	3	16	19	3	14	17	1	1	2	1	1	2	1	1	2	1	1	2
Private Hospital for Mental Diseases, Edward Mellus, M.D.,	1	9	10	1	4	5	1	1	2	1	1	2	1	1	2	1	1	2
Glenside, Mabel E. Ordway, M.D.,	1	9	10	1	4	5	1	1	2	1	1	2	1	1	2	1	1	2
Fisk Hospital, R. W. Sprague, M.D.,	1	5	6	1	2	3	1	1	2	1	1	2	1	1	2	1	1	2
Knollwood, Earle E. Bessey, M.D.,	1	5	6	1	2	3	1	1	2	1	1	2	1	1	2	1	1	2
Bellevue Sanitarium, Mary W. L. Johnson, M.D.,	1	2	3	1	2	3	1	1	2	1	1	2	1	1	2	1	1	2
Private Hospital, Arthur C. Doten, M.D.,	1	2	3	1	2	3	1	1	2	1	1	2	1	1	2	1	1	2
Private Hospital, Frederick L. Taylor, M.D.,	3	2	5	3	2	5	1	1	2	1	1	2	1	1	2	1	1	2
Elm Hill Private School and Home for the Feeble-minded, George A. Brown, M.D.,	30	11	41	30	11	41	1	1	2	1	1	2	1	1	2	1	1	2
Terrace Home School, Miss F. J. Herrick,	3	3	6	3	3	6	1	1	2	1	1	2	1	1	2	1	1	2
Washington Home, Hugh Barr Gray, M.D.,	16	16	32	16	16	32	1	1	2	1	1	2	1	1	2	1	1	2
Douglas Sanatorium, C. J. Douglas, M.D.,	2	2	4	2	2	4	1	1	2	1	1	2	1	1	2	1	1	2
Dr. Vrooman's Sanitarium, Earle M. Vrooman, M.D.,	5	2	7	5	2	7	1	1	2	1	1	2	1	1	2	1	1	2
Walter Baker Sanitarium, William B. Keeler, M.D.,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Genesee Sanitarium, Walter B. Russell, M.D.,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Dr. Schaefer's Hospital, August T. Schaefer, M.D.,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Massachusetts Home and Hospital, Nathaniel K. Wood, M.D.,	1	13	14	1	13	14	1	1	2	1	1	2	1	1	2	1	1	2
Standish Manor, Miss Harriet G. Russell,	1	23	24	1	23	24	1	1	2	1	1	2	1	1	2	1	1	2
Private School, Miss Elizabeth C. Moulton,	5	1	6	5	1	6	1	1	2	1	1	2	1	1	2	1	1	2
Hillbrow School, Miss Alice Shovelton,	2	2	4	2	2	4	1	1	2	1	1	2	1	1	2	1	1	2
Private School, Miss Caroline J. Schofield,	1	2	3	1	2	3	1	1	2	1	1	2	1	1	2	1	1	2
Totals,	113	231	344	37	123	160	2	16	18	27	18	45	40	44	84	7	30	37



## UNLICENSED HOMES.

Supervision was continued of unlicensed homes where the insane, feeble-minded, epileptic and persons addicted to the intemperate use of narcotics or stimulants are likely to be found.

## FAMILY CARE OF THE INSANE.

## UNDER COMMISSION ON MENTAL DISEASES.

First patient boarded in a family Aug. 10, 1885. Since placed, 1,278 different patients.

Number in families Oct. 1, 1919, 38 women.

There were no admissions within the year.

Daily average number for the year, 41, a decrease of 5.

Number of families having patients, 17, a decrease of 1, — 7 families having 1 patient; 3 families, 2; 3 families, 3; 4 families, 4.

Number of cities and towns in which patients are boarded, 3, an increase of 1.

The general statistics for the year are as follows: —

	1919.			INCREASE FOR THE YEAR.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Remaining Sept. 30, 1918, . . . . .	—	44	44	—	3 <sup>1</sup>	3 <sup>1</sup>
Admitted within the year, . . . . .	—	—	—	—	5 <sup>1</sup>	5 <sup>1</sup>
Viz.: By transfer from institutions, . . . . .	—	—	—	—	5 <sup>1</sup>	5 <sup>1</sup>
Whole number of cases within the year, . . . . .	—	44	44	—	8 <sup>1</sup>	8 <sup>1</sup>
Dismissed within the year, . . . . .	—	6	6	—	2 <sup>1</sup>	2 <sup>1</sup>
Viz.: Transferred to institutions, . . . . .	—	5	5	—	2 <sup>1</sup>	2 <sup>1</sup>
Unsuitable, . . . . .	—	4	4	—	1 <sup>1</sup>	1 <sup>1</sup>
Ill, . . . . .	—	1	1	—	1 <sup>1</sup>	1 <sup>1</sup>
Transferred to family care by trustees, . . . . .	—	1	1	—	—	—
Remaining Sept. 30, 1919, . . . . .	—	38	38	—	6 <sup>1</sup>	6 <sup>1</sup>
Viz.: Supported by State, . . . . .	—	37	37	—	5 <sup>1</sup>	5 <sup>1</sup>
Reimbursing, . . . . .	—	—	—	—	1 <sup>1</sup>	1 <sup>1</sup>
Private, . . . . .	—	1	1	—	—	—
Number of different persons within the year, . . . . .	—	44	44	—	7 <sup>1</sup>	7 <sup>1</sup>
Number of different persons admitted, . . . . .	—	—	—	—	5 <sup>1</sup>	5 <sup>1</sup>
Number of different persons dismissed, . . . . .	—	6	6	—	2 <sup>1</sup>	2 <sup>1</sup>
Daily average number, . . . . .	—	40.60	40.60	—	5.08	5.08
State, . . . . .	—	39.32	39.32	—	3.49	3.49
Reimbursing, . . . . .	—	.28	.28	—	.72 <sup>1</sup>	.72 <sup>1</sup>
Private, . . . . .	—	1.00	1.00	—	—	—
Self-supporting, . . . . .	—	—	—	—	.87 <sup>1</sup>	.87 <sup>1</sup>

<sup>1</sup> Decrease.

The total weekly per capita expenditures of the State on account of patients in private families for the year ending Nov. 30, 1919, and since Oct. 1, 1889, are shown as follows: —

	Fiscal Year ending Nov. 30, 1919.	Since Oct. 1, 1889.
Payments for board, . . . . .	\$6,861 07	\$699,449 56
Average number of patients, exclusive of private patients, .	38.70	179.36
Weekly per capita cost of board, . . . . .	\$3 41	\$2 54
Payments for extra clothing, not included in board rate, . .	\$41 35	\$2,693 62
Payments for medical attendance, etc., not included in board rate,	—	\$4,745 64
Weekly per capita cost of such expenses, outside of board rate,	\$0 02	\$0 02
Weekly per capita cost of support (being cost of board, clothing, medical attendance, etc.).	\$3 43	\$2 57
Payments for supervision (being transportation, salaries and expenses of visitors).	\$1,930 92	\$92,092 35
Average number of patients, . . . . .	39.70	185.53
Weekly per capita cost of supervision, . . . . .	\$0 94	\$0 35
Weekly per capita cost of support and supervision, . . . .	\$4 37	\$2 93

#### UNDER TRUSTEES.

The trustees of institutions were authorized, by chapter 458 of the Acts of 1905, to place their patients in the care of private families under substantially the same conditions as the Department of Mental Diseases.

First patient boarded June 13, 1905. Since placed, 838 different patients.

Number in families Oct. 1, 1919, 216, — 24 men and 192 women.

Placed during the year, 123 persons, an increase of 25.

Daily average number for the year, 225.

Number of families having patients, 124, a decrease of 5, — 78 families having 1 patient each; 23 families, 2; 8 families, 3; 9 families, 4; 3 families, 5; 3 families, 6.

Number of towns in which patients are boarded, 69, a decrease of 2. Largest number of patients in any one town, 24; of families, 9.

The general statistics for the year are as follows: —

	Worcester Hospital.	Taunton Hospital.	Northampton Hospital.	Danvers Hospital.	West-borough Hospital.	Boston Hospital.	Grafton Hospital.	Medford Hospital.	Gardner Colony.	Totals.
Remaining Sept. 30, 1918,										
Men, . . . . .	43	37	20	28	28	8	21	16	41	242
Women, . . . . .	43	6	3	1	28	—	1	1	11	23
		31	17	27	23	8	20	15	30	219
Admitted within the year,										
Men, . . . . .	16	3	9	5	23	6	3	7	51	123
Women, . . . . .	2	—	1	—	—	—	1	2	10	16
Nominally admitted from visit or escape, for discharge,	14	3	8	5	23	6	2	5	41	107
	—	—	—	—	—	—	—	—	—	—
Whole number of cases within the year, . . . . .	59	40	29	33	51	14	24	23	92	365
Dismissed within the year,										
Men, . . . . .	24	9	9	10	26	6	12	8	45	149
Women, . . . . .	1	1	1	1	—	—	1	—	10	15
Viz.: Returned to institutions,	23	8	8	9	26	6	11	8	35	134
Men, . . . . .	23	7	8	10	24	4	11	6	40	133
Women, . . . . .	1	—	—	1	—	—	—	—	8	11
Discharged,	22	7	8	9	24	4	10	6	32	122
Men, . . . . .	—	1	—	—	—	2	—	2	—	5
Women, . . . . .	—	1	—	—	—	—	—	—	—	1
Died,	1	—	—	—	—	2	—	2	—	4
Men, . . . . .	—	1	1	—	—	—	1	—	2	6
Women, . . . . .	—	—	—	—	—	—	—	—	—	2
On visit Sept. 30, 1919,	1	1	1	—	—	—	—	—	1	4
On escape Sept. 30, 1919,	1	1	—	—	—	—	1	—	1	2
	—	—	—	—	1	—	—	—	—	1
	—	—	—	—	—	—	—	—	—	4
Remaining Sept. 30, 1919,										
Men, . . . . .	35	31	20	23	25	8	12	15	47	216
Women, . . . . .	1	5	3	—	—	—	1	3	11	24
Supported by the State,	34	26	17	23	25	8	11	12	36	192
Private, . . . . .	23	21	15	19	20	6	11	8	24	147
Self-supporting,	7	1	4	2	5	2	—	1	1	23
	5	9	1	2	—	—	1	6	22	46
Daily average number,										
Men, . . . . .	37.96	34.21	20.07	26.29	25.60	8.08	16.93	14.68	41.85	225.67
Women, . . . . .	.51	5.92	2.97	.69	—	—	.35	1.04	10.81	22.29
State, . . . . .	37.45	28.29	17.10	25.60	25.60	8.08	16.58	13.64	31.04	203.38
Private, . . . . .	26.67	23.29	14.64	23.50	24.25	4.53	15.13	8.00	23.89	163.90
Self-supporting,	6.78	1.00	4.43	2.00	1.35	2.15	—	1.00	1.00	19.71
	4.51	9.92	1.00	.79	—	1.40	1.80	5.68	16.96	42.06

## THE COMMISSION.

### PROCEEDINGS.

Fourteen meetings of the members of the Commission were held during the year.

Fifty-seven visits of inspection were made by the Director and members of the Commission, in addition to 463 visits by the assistants to the Director, pathologist, assistant pathologist, financial agent and director of social service.

Eight visits were made to the institutions relative to deportation matters by the assistants to the Director.

Ninety visits relative to matters of support were made to the institutions by agents of the support department.

Careful attention has been paid to all complaints as to commitment, discharge, death or treatment of patients.

### PLANS AND SPECIFICATIONS

for new construction and additions to existing buildings were examined and approved.

### ESTIMATES OF STATE EXPENSES FOR 1920

as approved on account of the mentally sick, the feeble-minded and the epileptic, amount to \$9,159,485.58, excluding estimates for the maintenance of the mental wards of the State Infirmity and Bridgewater State Hospital, whose estimates are inseparable from those of the institutions as a whole, the State Infirmity being supervised by the Department of Public Welfare, and the Bridgewater State Hospital by the Department of Correction.

These estimates comprise estimates by the Department of Mental Diseases and by the State institutions.

### ESTIMATES FOR STATE INSTITUTIONS

relate to (1) maintenance expenses, inclusive of repairs and improvements, and (2) special expenses for new buildings, additions, new furnishings and equipment in the main.



ESTIMATES FOR MAINTENANCE EXPENSES

as requested by the trustees of the institutions, and the amounts as approved by the Commission on Mental Diseases, appear in the following tabulation:—

*Estimates for Maintenance, 1920.*

INSTITUTIONS.	TOTALS.	
	Requested by Trustees.	Recommended by Commission.
Worcester Hospital, . . . . .	\$776,102 65	\$737,913 28
Taunton Hospital, . . . . .	539,901 93	529,487 43
Northampton Hospital, . . . . .	399,627 92	391,116 98
Danvers Hospital, . . . . .	612,879 00	595,565 35
Westborough Hospital, . . . . .	612,261 68	553,006 58
Boston Hospital, . . . . .	862,707 56	811,524 72
Grafton Hospital, . . . . .	581,148 04	555,467 08
Medfield Hospital, . . . . .	622,945 10	584,922 21
Gardner Colony, . . . . .	390,170 55	349,176 18
Foxborough Hospital, . . . . .	260,650 00	256,392 59
Totals, . . . . .	\$5,658,394 43	\$5,364,572 40
Monson Hospital, . . . . .	\$391,879 90	\$399,388 46
Massachusetts School for the Feeble-minded, . . . . .	610,791 20 <sup>1</sup>	576,629 99 <sup>1</sup>
Wrentham School, . . . . .	472,324 72	481,683 48
Norfolk Hospital, . . . . .	66,206 50	16,241 25
Totals, . . . . .	\$1,541,202 32	\$1,473,943 18
Aggregates, . . . . .	\$7,199,596 75	\$6,838,515 58

<sup>1</sup> Includes sewage disposal.

ESTIMATES FOR SPECIAL APPROPRIATIONS

for the State institutions under the supervision of this Commission have been prepared and are classified below:—

*Worcester State Hospital.*

Additional water supply for fire protection,	\$17,000 00	
Addition and alterations to laundry, . . . . .	21,000 00	
Alterations to kitchen building, . . . . .	14,500 00	
Cold-storage building and equipment, . . . . .	45,000 00	
Construction of fireproof stair wells, . . . . .	11,000 00	
To complete water supply at Shrewsbury Colony, . . . . .	8,800 00	
		<hr/>
		\$117,300 00

*Taunton State Hospital.*

Additions and alterations to upper part of

power house, . . . . .	\$63,000 00
Purchase of land, . . . . .	26,000 00

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 \$89,000 00
*Northampton State Hospital.*

Purchase of land with buildings, . . . . .	7,500 00
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*Danvers State Hospital.*

Constructing new power plant, . . . . .	\$276,000 00
Constructing and furnishing officer's cottage, . . . . .	5,000 00

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 281,000 00
*Westborough State Hospital.*

Renovation of Wards 4, 5 and 6, . . . . .	\$47,000 00
Constructing spur track and trestle, . . . . .	52,000 00
To complete standpipe and changes in water system, . . . . .	3,500 00

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 102,500 00
*Boston State Hospital.*

Constructing and furnishing home for 90 nurses, . . . . .	\$24,000 00
Constructing and furnishing dining room, West Group, . . . . .	60,000 00
Constructing and furnishing administration building, . . . . .	150,000 00
Constructing and furnishing reception build- ing for 200 patients, . . . . .	400,000 00

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 634,000 00
*Medfield State Hospital.*

Reconstruction of the central kitchen and dining-room unit, . . . . .	\$125,000 00
Purchase of land, . . . . .	18,000 00
Completion of sewage beds, . . . . .	18,000 00

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 161,000 00
*Gardner State Colony.*

Extension of water supply, . . . . .	\$10,000 00
Constructing and equipping laundry build- ing, . . . . .	30,000 00
Constructing and furnishing cottage for 12 employees, . . . . .	8,500 00

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 48,500 00

*Foxborough State Hospital.*

Constructing steam mains and electric cable, . . . . .	\$30,000 00	
Constructing and furnishing administration building and corridor, . . . . .	140,000 00	
Constructing barn, . . . . .	40,000 00	
Constructing and furnishing male ward building to accommodate 100 patients, . . . . .	148,500 00	
Oil-burning equipment, . . . . .	12,700 00	
Purchase of land, . . . . .	12,500 00	
Renovation of Ward E to care for 75 patients, . . . . .	15,000 00	
	<hr/>	\$398,700 00

*Massachusetts School for the Feeble-minded, Waverley.*

Constructing vegetable cellar at Waverley, . . . . .	\$10,000 00	
Constructing sheds for tools and carts at Waverley, . . . . .	2,000 00	
Constructing and furnishing cottages for married officers at Waverley (head farmer, physician, steward), . . . . .	15,000 00	
Constructing sheds for tools and equipment at Templeton Colony, . . . . .	4,000 00	
Constructing and furnishing assembly hall at Templeton Colony, . . . . .	5,000 00	
	<hr/>	36,000 00

*Wrentham State School.*

Constructing spur track and trestle, . . . . .	\$52,000 00	
Constructing and furnishing assembly hall, . . . . .	95,000 00	
Constructing and furnishing industrial building, . . . . .	43,000 00	
Constructing cold-storage plant, . . . . .	45,000 00	
	<hr/>	235,000 00

*School for the Feeble-minded in the Western Part of the State.*

Constructing and furnishing dormitory building for 105 inmates, . . . . .	\$31,000 00	
Constructing and furnishing custodial building for 140 inmates, . . . . .	45,000 00	
	<hr/>	76,000 00
Total, . . . . .	<hr/>	\$2,186,500 00

## SUMMARY OF RECOMMENDATIONS FOR SPECIAL APPROPRIATIONS.

*Insane.*

Constructing, furnishing and equipping buildings for patients and nurses, . . . . .	\$587,500 00
Number of patients provided for, . . . . .	375
Number of nurses provided for, . . . . .	90
Patients and nurses provided for, . . . . .	465
Land, buildings for officers and employees and for administrative purposes, including furnishing and equipment, improvements and repairs, . . . . .	1,252,000 00
Total, . . . . .	\$1,839,500 00

*Feeble-minded.*

Constructing, furnishing and equipping buildings for patients and nurses, . . . . .	\$76,000 00
Number of patients provided for, . . . . .	245
Number of nurses provided for, . . . . .	—
Patients and nurses provided for, . . . . .	245
Land, buildings for officers and employees and for administrative purposes, including furnishing and equipment, improvements and repairs, . . . . .	271,000 00
Total, . . . . .	\$347,000 00

*All Classes.*

Constructing, furnishing and equipping buildings for patients and nurses, . . . . .	\$663,500 00
Number of patients provided for, . . . . .	620
Average per capita cost, . . . . .	\$1,031 45
Number of nurses provided for, . . . . .	90
Average per capita cost, . . . . .	\$266 66
Patients and nurses provided for, . . . . .	710
Average per capita cost, . . . . .	\$934 50
Land, buildings for officers and employees and for administrative purposes, including furnishing and equipment, improvements and repairs, . . . . .	1,521,000 00
Total, . . . . .	\$2,186,500 00



# ESTIMATES BY THE MASSACHUSETTS COMMISSION ON MENTAL DISEASES.

1. Personal services, . . . . .	\$75,150
2. Office and incidental expenses, . . . . .	15,170
3. Traveling and other expenses, . . . . .	5,150
4. Transportation and medical examination of State paupers, . . . . .	8,000
5. Support of insane paupers boarded in families, . . . . .	8,000
6. Support of State paupers in Hospital Cottages for Children, . . . . .	11,000
7. Psychiatric Institute, — investigation as to the nature, causes, results and treatment of mental diseases and defects, and the publication of the results thereof, . . . . .	10,000
8. Exchange of lecturers, . . . . .	1,000
9. Production of moving-picture films, . . . . .	1,000
	<hr/>
	\$134,470

## FINANCIAL STATEMENT.

### STATEMENT OF APPROPRIATIONS MADE TO THE COMMISSION FOR THE FISCAL YEAR ENDING NOV. 30, 1919.

	Appropriations.	Amount expended.	Balance.
Traveling, office and contingent expenses, . . . . .	\$18,564 17 <sup>1</sup>	\$14,978 48	\$3,585 69
Salaries and wages of officers and employees, . . . . .	68,018 00 <sup>2</sup>	62,495 26	5,522 74
Transportation and medical examination of State charges. . . . .	7,541 24 <sup>3</sup>	4,856 50	2,684 74
Support of State charges boarded out in families, . . . . .	9,000 00	6,902 42	2,097 58
Support of State charges in Hospital Cottages for Children. . . . .	11,000 00	10,655 20	344 80
For investigation as to the nature, causes, results and treatment of mental disease and defect, and the publication of the results thereof. . . . .	6,000 35 <sup>4</sup>	5,443 18	557 17
	<hr/>	<hr/>	<hr/>
	\$120,123 76	\$105,331 04	\$14,792 72

<sup>1</sup> Includes \$1,442.57, transferred from balance of 1918; refunds, \$121.60; making a total of \$1,564.17.

<sup>2</sup> Refunds, \$18.

<sup>3</sup> Refunds, \$41.24.

<sup>4</sup> Refunds, 35 cents.

STATEMENT OF RECEIPTS AND DISBURSEMENTS OF THE COMMISSION FOR  
THE YEAR ENDING NOV. 30, 1919.

*Receipts.*

Payable to State Treasurer: —

For support of patients in family care, . . . . .	\$41 67
Refunds on appropriations, . . . . .	206 19
Licenses for private institutions, . . . . .	1,500 00
Treatments for syphilis, . . . . .	586 83
Interest on bank account, . . . . .	85 95

---

Total payable to State Treasurer, . . . . . \$2,420 64

Payable to State institutions: —

For support of patients in —

Worcester Hospital, . . . . .	\$11,709 67
Taunton Hospital, . . . . .	5,535 49
Northampton Hospital, . . . . .	4,607 30
Danvers Hospital, . . . . .	12,204 88
Westborough Hospital, . . . . .	9,429 49
Boston Hospital, . . . . .	10,941 01
Grafton Hospital, . . . . .	6,546 53
Medfield Hospital, . . . . .	5,995 83
Gardner Colony, . . . . .	335 59
Monson Hospital, . . . . .	1,669 48
Foxborough Hospital, . . . . .	1,880 79
Massachusetts School for Feeble-minded, . . . . .	765 85
Wrentham School, . . . . .	297 45
State Infirmary, . . . . .	1,382 00
State Farm, . . . . .	743 00

---

Total payable to State institutions, . . . . . \$74,044 36

Total receipts, . . . . . \$76,465 00

*Disbursements.*

Paid State Treasurer, . . . . .	\$2,420 64
Paid State institutions, . . . . .	74,044 36

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Total disbursements, . . . . . \$76,465 00

## FAMILY CARE OF THE INSANE.

Under chapter 504, section 71, of the Acts of 1909 the Department is authorized to place in private families certain suitable inmates of the institutions under supervision. For a full report of this work as conducted by the Department and by the trustees of certain institutions, see page 135.

## THE SUPPORT DEPARTMENT.

It is the duty of this department to ascertain whether the patients committed to the various State hospitals for the insane, and also the institutions for the epileptic and feeble-minded, as public charges have a legal right to remain in said institutions. If they are aliens and have no such right, and have landed in the United States within five years of their commitment, investigation is made as to their liability to deportation under the United States Immigration laws, and the result of such investigation is reported to the Commission. If in the United States more than five years and in Massachusetts less than five years, such aliens are reported for deportation by this Commission. Under the provisions of section 69 of chapter 504 of the Acts of 1909 "the Commission may also remove any pauper inmates of institutions under its supervision who are not subject to the orders of a court to any country, State or place where they belong." If native born and having no claim upon this Commonwealth for support, investigation is made to determine upon what State, if any, they have a claim, and when so determined this is also reported to the Commission for action.

The financial condition of those entitled to remain is investigated, and if there are means legally available and sufficient to warrant it, the patient is reported to the hospital, to be supported privately at a rate to be determined by the hospital authorities. If the means are not sufficient for that purpose, a reimbursing rate is made by this department and submitted to the Commission for approval.

The following shows in detail the work of this department: —

Visits to the hospitals, . . . . .	90
Histories taken at the hospitals, . . . . .	2,710
Visits to relatives of patients and others for investigation, . . . . .	1,594
Cases submitted for deportation by the United States Commissioner of Immigration, . . . . .	66
Cases submitted for deportation by the Commission, . . . . .	172

*Support Cases, not including Soldiers and Sailors.*

Cases pending Nov. 30, 1918, . . . . .	356
New cases, . . . . .	842
	— 1,198
Made private, . . . . .	117
Made reimbursing, . . . . .	354
Accepted as State charges, . . . . .	331
Pending Nov. 30, 1919, . . . . .	396
	— 1,198

*Soldier and Sailor Cases.*

Total number of cases investigated: —

American cases, . . . . .	206
Canadian cases, . . . . .	4
	— 210
Died, . . . . .	4
On visit, . . . . .	74
Transferred to other institutions, . . . . .	21
Remaining in hospitals Nov. 30, 1919, . . . . .	111
	— 210

*Private Cases.*

Cases pending Nov. 30, 1918, . . . . .	24
New cases reported to hospitals, . . . . .	132
	— 156
Reported by hospitals as having been made private, . . . . .	117
Made reimbursing, . . . . .	7
Dropped — accepted as State charges, . . . . .	4
Pending Nov. 30, 1919, . . . . .	28
	— 156

*Reimbursing Cases.*

Cases remaining Nov. 30, 1918, . . . . .	879
New cases, . . . . .	354
	— 1,233
Made private of the above, . . . . .	12
Died, . . . . .	128
Discharged or on visit Nov. 30, 1919, . . . . .	163
Dropped — accepted as State charges, . . . . .	60
Remaining in hospitals Nov. 30, 1919, . . . . .	870
	— 1,233



*Number and Board Rates of Reimbursing Patients for the Year ending Sept. 30, 1919.*

INSTITUTION.	DAILY AVERAGE NUMBER.		Average Weekly Per Capita Rate.	NUMBER OCT. 1, 1919.		UNITED STATES DEPORTATION CASES.	
	Males.	Females.		Males.	Females.	Daily Average Number.	Average Weekly Per Capita.
Worcester Hospital, . . . . .	30.93	63.46	\$4 17	39	67	2.63	\$14 00
Taunton Hospital, . . . . .	28.63	44.66	4 14	39	49	-	-
Northampton Hospital, . . . . .	24.49	58.72	3 92	45	60	-	-
Danvers Hospital, . . . . .	39.25	116.64	3 79	56	107	-	-
Westborough Hospital, . . . . .	34.42	79.35	3 90	30	87	-	-
Boston Hospital, . . . . .	27.58	98.11	4 06	42	121	-	14 00
Grafton Hospital, . . . . .	26.32	27.25	4 06	25	38	-	-
Medfield Hospital, . . . . .	9.04	32.56	4 26	10	36	-	-
Gardner Colony, . . . . .	2.63	3.75	2 71	9	4	-	-
Monson Hospital, . . . . .	14.35	24.30	3 52	20	24	-	-
Mental wards, State Infirmary, . . . . .	.79	5.98	4 26	-	6	-	-
Foxborough Hospital, . . . . .	3.57	9.22	4 53	15	9	.60	14 00
Bridgewater Hospital, . . . . .	4.75	-	4 75	4	-	-	-
Massachusetts School for the Feeble-minded, . . . . .	6.87	11.07	3 52	11	14	-	-
Wrentham School, . . . . .	2.15	1.58	1 96	8	4	-	-
Family care, . . . . .	.96	.26	3 42	-	-	-	-
Totals, . . . . .	256.73	576.91	\$3 96	332	626	3.32	\$14 00

*Receipts for Support of Reimbursing Patients.*

LOCATION OF PATIENTS.	Year ending Nov. 30, 1918.	Year ending Nov. 30, 1919.	Total since Jan. 1, 1904.
Worcester Hospital, . . . . .	\$23,402 17	\$24,000 62	\$275,888 57
Taunton Hospital, . . . . .	17,467 36	16,307 03	215,205 67
Northampton Hospital, . . . . .	17,138 53	17,594 93	219,607 30
Danvers Hospital, . . . . .	24,631 35	31,578 89	353,626 04
Westborough Hospital, . . . . .	25,378 70	23,756 33	236,990 06
Boston Hospital, . . . . .	26,910 25	27,579 41	178,563 94
Grafton Hospital, . . . . .	9,714 85	13,305 75	122,720 69
Medfield Hospital, . . . . .	12,714 10	11,003 24	140,929 43
Gardner Colony, . . . . .	1,993 61	1,072 27	21,338 24
Mental wards, State Infirmiry, . . . . .	2,295 35	1,382 00	16,847 05
Bridgewater Hospital, . . . . .	1,832 99	743 00	11,668 78
Monson Hospital, . . . . .	8,268 51	7,028 22	56,877 59
Foxborough Hospital, . . . . .	2,890 50	3,252 17	22,569 48
School for the Feeble-minded, . . . . .	3,497 10	3,073 60	19,568 25
Wrentham School, . . . . .	499 81	521 68	6,137 79
Hospital Cottages, . . . . .	-	-	673 37
Family care, . . . . .	526 48	41 67	14,058 99
Foxborough labor, . . . . .	-	-	3,370 45
Almshouses, . . . . .	-	-	923 66
	\$179,161 66	\$182,240 81	\$1,917,565 35

## DEPORTATIONS.

There were considered for deportation 652 cases, compared with 612 for the previous year. This Department deported 93 to other States, 14 to other countries, — in all, 107. In addition, the United States Immigration Commissioner deported 51. Altogether, 158 have been deported since Dec. 1, 1918.

Since Oct. 1, 1898, 2,629 persons have been deported by this Department, of whom 87 returned once, 14 twice and 2 four times. Of those returning, 12 are now in institutions in this State.

Details of the disposition of cases under consideration for deportation are shown in the following table: —

	COMMISSION.			UNITED STATES IMMIGRATION COMMISSIONER.			TOTALS.			TOTALS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	1918.	1919.	Increase.
Cases pending Nov. 30, 1918,	169	42	211	109	74	183	278	116	394	327	394	67
Since reported, . . . . .	132	61	193	44	21	65	176	82	258	285	258	271
Total cases under consideration,	301	103	404	153	95	248	454	198	652	612	652	40
Deported, . . . . .	74	33	107	26	25	51	100	58	158	143	158	15
Viz.: Other States,	62	31	93	—	—	—	62	31	93	115	93	221
Other countries,	12	2	14	23	24	47	35	26	61	26	61	35
Special cases not landed under immigration laws, and pending deportation,	—	—	—	3	1	4	3	1	4	2	4	2
Discharged, . . . . .	22	13	35	12	4	16	34	17	51	24	51	27
Viz.: Care of friends,	17	13	30	11	4	15	28	17	45	23	45	22
Escaped,	4	—	4	—	—	—	4	—	4	1	4	3
Returned to penal institutions,	1	—	1	1	—	1	2	—	2	—	2	2
Died,	7	2	9	2	7	9	9	9	18	30	18	121
Withdrawn,	2	—	2	4	2	6	6	2	8	12	8	41
Viz.: Private patients,	2	—	2	—	—	—	2	—	2	1	2	1
Rejected by Immigration Commissioner,	—	—	—	4	2	6	4	2	6	7	6	11
Became United States cases (act of Feb. 5, 1917),	—	—	—	—	—	—	—	—	—	4	—	41
Dropped from further consideration,	6	8	14	—	—	—	6	8	14	9	—	5
Viz.: Impracticable to deport,	6	6	12	—	—	—	6	6	12	3	12	9
No place to go,	—	2	2	—	—	—	—	2	2	6	2	41
Total cases closed,	111	56	167	44	38	82	155	94	249	218	249	31
Cases pending Nov. 30, 1919,	190	47	237	110	58	168	300	105	405	394	405	11
Viz.: Not in condition to deport,	3	3	6	—	—	—	3	3	6	8	6	21
Awaiting action,	63	20	83	11	10	21	74	30	104	41	104	63
Delayed because of war conditions,	100	17	117	75	35	110	175	52	227	284	227	571
Under sentence,	1	—	1	1	—	1	2	—	2	4	2	21
On visit,	12	6	18	9	13	22	21	19	40	42	40	21
On escape,	11	1	12	14	—	14	25	1	26	15	26	11

1 Decrease.

## TRANSFERS.

Four hundred and eighty-two patients have been transferred within the year, — 452 to public institutions and families; 30 to private institutions.

## THE FINANCIAL DEPARTMENT.

The following is submitted as the report of the financial department for the year ending Nov. 30, 1919.

There was expended by the Commission on Mental Diseases for office expenses, travel, transportation, board of patients, etc., \$105,331.04; for construction work at the institutions, \$828,306.55 (special appropriations); and by the institutions for maintenance, \$5,983,025, making a total expenditure of \$6,916,662.59. The receipts by the Commission were \$2,420.64, and by the institutions \$510,644.43, making a total of \$513,065.07.

The Legislature of this year appropriated to this Commission the sum of \$802,527.22 for new buildings and repairs.

## COMBINED PURCHASING.

The regular monthly meetings of the stewards have been held throughout the year, and increased interest has been shown in the subjects presented for discussion.

Although conditions have been unfavorable throughout the whole year, some progress has been made in standardization and combined buying. Among the items which are bought in combination, standards having been created and specifications made, are eggs, butter, coffee, cereal and chicory for coffee substitute, tea, seed potatoes and chemicals for fertilizers.

Mr. Harold K. Wilder has been appointed permanent chemist, and takes office with the beginning of the new fiscal year. With a chemist always available, an increased number of samples for analysis will be sent in from the institutions, and it is hoped that if the market becomes more stable great gains can be made in the coming year in further standardization.



### RATION ALLOWANCE.

The ration allowance adopted in 1918 as a basis for determining food requirements in the various institutions has proved very satisfactory. Following is the ration allowance for 1919: —

	Ounces per Day.	Ounces per Year.	Pounds per Year.	Commercial Units used.
Farinaceous food: —				
Flour, . . . . . 9.50	13.87	3,467.50	216.71	1.105 <sup>1</sup>
Other, . . . . . 4.37		1,595.05	99.69	99.69 <sup>2</sup>
Meats and fish, . . . . .	8.75	3,193.75	199.61	199.61 <sup>2</sup>
Butter, . . . . .	1.37	500.05	31.25	31.25 <sup>2</sup>
Cheese, . . . . .	.30	109.50	6.87	6.87 <sup>2</sup>
Coffee, . . . . .	.44	160.60	10.03	10.03 <sup>2</sup>
Tea, . . . . .	.12	43.80	2.73	2.73 <sup>2</sup>
Milk, . . . . .	1.25 <sup>3</sup>	456.24 <sup>3</sup>	—	228.12 <sup>4</sup>
Eggs, . . . . .	.50	182.50 <sup>5</sup>	—	15.208 <sup>6</sup>
Sugar, . . . . .	1.90	693.50	43.343	43.343 <sup>2</sup>
Potatoes, . . . . .	9.50	3,467.50	216.71	216.71 <sup>2</sup>

Fruit, 1½ cents per day per capita.

Not listed on ration allowance, 1½ cents per day per capita.

<sup>1</sup> Barrels.

<sup>3</sup> Pints.

<sup>5</sup> Eggs.

<sup>2</sup> Pounds.

<sup>4</sup> Quarts.

<sup>6</sup> Dozen.

### SPECIAL APPROPRIATIONS.

Conditions have been unfavorable for all building operations owing to continual sharp advances in the cost of materials and labor.

In December, 1918, bids were requested on an acute male receiving ward building at the Foxborough State Hospital. When bids were opened the lowest exceeded the appropriation by \$22,394. Before the Legislature adjourned additional funds were appropriated, and when the building was again advertised the bids were within the amount available.

In August of this year bids were called for on an assembly hall and chapel at the Gardner State Colony. The lowest bids overran the appropriation some \$12,500. The institution, under the supervision of its foreman mechanic, with patient labor, is constructing this building, the Department buying the materials.

In August bids were also requested on a home for 90 nurses, Boston State Hospital. Bids were within the appropriation. The lowest bidder for erection, however, could not deliver contract, as no bonding company would furnish a bond. The next lowest bid was so much higher that the appropriation was not large enough. At the same time, bids were opened for a dining-room building, West Group, Boston State Hospital, and totaled more than the appropriation for the purpose. In the budget filed with the Supervisor of Administration October 15 requests for \$24,000 and \$60,000, respectively, were submitted for these buildings.

Bids for beginnings of a new project — the School for the Feeble-minded, Belchertown — were advertised in September, under the headings of service building, laundry, power house, tunnels, custodial building and dormitory building. Bids allowed the awarding of the contracts for the service building, laundry and power house, but not for the tunnels, custodial and dormitory buildings. Anticipating advances in the cost of the materials, the Commission has contracted for the cement and reinforcing steel for the tunnels, and may be compelled to build them by the day, with the assistance of patient labor. In the estimate filed in October with the Supervisor of Administration the Commission has requested additional amounts in the sum of \$45,000 for the custodial building, and \$31,000 for the dormitory building.

Under all contracts awarded the amounts set aside for emergencies have been much less than we feel is safe in carrying out the projects.

#### FARM.

This is the first full year of the employment of a supervisor of farm administration, and it has been an exceptionally busy one. Every phase of farm work has been thoroughly investigated, resulting in many improvements.

Actual figures showing the value of this service cannot be given, as the figures for 1918 are not in all cases complete or dependable. We can state, however, that with the establishment of a ration for feeding live stock, the milk yield per cow has shown an increase, and even with the advance in the price

of grain, the cost of feed per cow has shown a decrease. Stock has been greatly improved. Special attention has been paid to tuberculosis, frequent tests having been applied, and reactors taken from the herd. Non-productive cows have been eliminated, and high-grade sires acquired.

Surveys of all the farms have been made and a program established so that each institution, as far as is in its power, will raise sufficient, but not excessive, amounts of vegetables to meet its needs.

By the purchase of chemicals in combination, and the mixing of fertilizers by proper receipts for the various crops, better crops have been produced and savings have been made. The same might be said of materials for spraying.

The value of this appointment has also been shown in considering the study of the institution estimate for maintenance. By means of rationing and averaging, together with personal observations, every institution is allowed by this Commission an amount for its expenditure under "Farm" that is proportionate to the results obtained.

#### STATEMENT OF APPROPRIATIONS FOR SPECIAL PURPOSES FOR THE VARIOUS INSTITUTIONS.

##### *Boston State Hospital.*

Construction of piggery (chapter 132, Resolves of 1916):—

Appropriation, . . . . .	\$1,800 00
1916 expenditures authorized, . . . . .	\$1,622 96
1917 expenditures authorized, . . . . .	122 09
1918 expenditures authorized, . . . . .	—
1919 expenditures authorized, . . . . .	—
	<hr/>
	1,745 05
	<hr/>
Balance available, . . . . .	\$54 95

Home for 84 nurses (chapter 122, Resolves of 1917):—

Appropriation, . . . . .	\$70,000 00
1917 expenditures authorized, . . . . .	\$3,581 55
1918 expenditures authorized, . . . . .	66,093 39
1919 expenditures authorized, . . . . .	307 41
	<hr/>
	69,982 35
	<hr/>
Balance reverted to State treasury, . . . . .	\$17 65

*Boston State Hospital — Continued.*

## Interior fire escapes (chapter 122, Resolves of 1917):—

Appropriation, . . . . .	\$2,832 00
1917 expenditures authorized, . . . . .	—
1918 expenditures authorized, . . . . .	\$401 00
1919 expenditures authorized, . . . . .	476 00
	<hr/>
	877 00
	<hr/>
Balance available, . . . . .	\$1,955 00

## Boiler (chapter 122, Resolves of 1917):—

Appropriation, . . . . .	\$8,870 00
1917 expenditures authorized, . . . . .	\$268 95
1918 expenditures authorized, . . . . .	8,580 27
1919 expenditures authorized, . . . . .	20 77
	<hr/>
	8,869 99
	<hr/>
Balance reverted to State treasury, . . . . .	\$0 01

## Women's custodial building (chapter 132, Resolves of 1916):—

Appropriation, . . . . .	\$140,000 00
1916 expenditures authorized, . . . . .	\$134,413 99
1917 expenditures authorized, . . . . .	4,827 40
1918 expenditures authorized, . . . . .	671 55
1919 expenditures authorized, . . . . .	—
	<hr/>
	139,912 94
	<hr/>
Balance available, . . . . .	\$87 06

## Extension of sewer and water system (chapter 132, Resolves of 1916):—

Appropriation, . . . . .	\$5,000 00
1916 expenditures authorized, . . . . .	\$2,174 00
1917 expenditures authorized, . . . . .	398 25
1918 expenditures authorized, . . . . .	2,379 70
1919 expenditures authorized, . . . . .	42 00
	<hr/>
	4,993 95
	<hr/>
Balance reverted to State treasury, . . . . .	\$6 05

## Fire protection (chapter 132, Resolves of 1916):—

Appropriation, . . . . .	\$2,500 00
1916 expenditures authorized, . . . . .	\$508 85
1917 expenditures authorized, . . . . .	1,498 11
1918 expenditures authorized, . . . . .	476 25
1919 expenditures authorized, . . . . .	—
	<hr/>
	2,483 21
	<hr/>
Balance available, . . . . .	\$16 79



*Boston State Hospital — Continued.*

## Fire escapes (chapter 132, Resolves of 1916): —

Appropriation, . . . . .	\$1,683 00
1916 expenditures authorized, . . . . .	—
1917 expenditures authorized, . . . . .	\$732 23
1918 expenditures authorized, . . . . .	—
1919 expenditures authorized, . . . . .	134 00
	<hr/>
	866 23
Balance available, . . . . .	<hr/> \$816 77

## Fisher Building alterations (chapter 376, Special Acts of 1917): —

Appropriation, . . . . .	\$10,000 00
1917 expenditures authorized, . . . . .	—
1918 expenditures authorized, . . . . .	\$9,995 22
1919 expenditures authorized, . . . . .	—
	<hr/>
	9,995 22
Balance reverted to State treasury, . . . . .	<hr/> \$4 78

## Window bars (chapter 50, Resolves of 1918): —

Appropriation, . . . . .	\$1,500 00
1918 expenditures authorized, . . . . .	—
1919 expenditures authorized, . . . . .	\$1,365 00
	<hr/>
	1,365 00
Balance available, . . . . .	<hr/> \$135 00

## Male infirmary (chapter 50, Resolves of 1918): —

Appropriation, . . . . .	\$385,000 00
1918 expenditures authorized, . . . . .	\$49,719 04
1919 expenditures authorized, . . . . .	204,853 14
	<hr/>
	254,572 18
Balance available, . . . . .	<hr/> \$130,427 82

## Boiler and blower (chapter 50, Resolves of 1918): —

Appropriation, . . . . .	\$11,000 00
1918 expenditures authorized, . . . . .	\$7,909 57
1919 expenditures authorized, . . . . .	3,090 01
	<hr/>
	10,999 58
Balance reverted to State treasury, . . . . .	<hr/> \$0 42

## Dining room, West Group (chapter 211, Special Acts of 1919): —

Appropriation, . . . . .	\$100,000 00
1919 expenditures authorized, . . . . .	3,196 14
	<hr/>
Balance available, . . . . .	\$96,803 86

*Boston State Hospital — Concluded.*

Home for 90 nurses (chapter 211, Special Acts of 1919): —

Appropriation, . . . . .	\$80,000 00
1919 expenditures authorized, . . . . .	1,087 90
	<hr/>
Balance available, . . . . .	\$78,912 10

Dining room, East Group (chapter 211, Special Acts of 1919): —

Appropriation, . . . . .	\$110,000 00
1919 expenditures authorized, . . . . .	10,672 62
	<hr/>
Balance available, . . . . .	\$99,327 38

*Danvers State Hospital.*

Nurses' home (chapter 120, Resolves of 1916): —

Appropriation, . . . . .	\$50,000 00
1916 expenditures authorized, . . . . .	\$13,850 78
1917 expenditures authorized, . . . . .	33,354 55
1918 expenditures authorized, . . . . .	2,603 69
1919 expenditures authorized, . . . . .	190 98
	<hr/>
	50,000 00

Storehouse and service building (chapter 120, Resolves of 1916): —

Appropriation, . . . . .	\$47,000 00
1916 expenditures authorized, . . . . .	\$5,162 00
1917 expenditures authorized, . . . . .	38,205 52
1918 expenditures authorized, . . . . .	3,473 07
1919 expenditures authorized, . . . . .	159 41
	<hr/>
	47,000 00

Coal trestle (chapter 50, Resolves of 1918): —

Appropriation, . . . . .	\$10,000 00
1918 expenditures authorized, . . . . .	—
1919 expenditures authorized, . . . . .	\$6,051 74
	<hr/>
	6,051 74
	<hr/>
Balance available, . . . . .	\$3,948 26

Construction of two verandas (chapter 50, Resolves of 1918): —

Appropriation, . . . . .	\$18,500 00
1918 expenditures authorized, . . . . .	\$1,727 77
1919 expenditures authorized, . . . . .	13,592 42
	<hr/>
	15,320 19
	<hr/>
Balance available, . . . . .	\$3,179 81

*Danvers State Hospital — Concluded.*

Alterations, Middleton Colony (chapter 50, Resolves of 1918):—

Appropriation, . . . . .	\$8,000 00
1918 expenditures authorized, . . . . .	\$253 00
1919 expenditures authorized, . . . . .	6,676 29
	<hr/>
	6,929 29
Balance available, . . . . .	<hr/>
	\$1,070 71

*Foxborough State Hospital.*

Building for 75 patients (chapter 121, Resolves of 1916):—

Appropriation, . . . . .	\$70,000 00
1916 expenditures authorized, . . . . .	\$10,075 86
1917 expenditures authorized, . . . . .	44,018 09
1918 expenditures authorized, . . . . .	15,880 39
1919 expenditures authorized, . . . . .	25 59
	<hr/>
	69,999 93
Balance reverted to State treasury, . . . . .	<hr/>
	\$0 07

Additional connecting corridors (chapter 121, Resolves of 1916):—

Appropriation, . . . . .	\$12,000 00
1916 expenditures authorized, . . . . .	\$5,122 48
1917 expenditures authorized, . . . . .	5,010 34
1918 expenditures authorized, . . . . .	1,827 70
1919 expenditures authorized, . . . . .	39 42
	<hr/>
	11,999 94
Balance reverted to State treasury, . . . . .	<hr/>
	\$0 06

Renovation of wards (chapter 121, Resolves of 1916):—

Appropriation, . . . . .	\$13,200 00
1916 expenditures authorized, . . . . .	—
1917 expenditures authorized, . . . . .	\$5,585 67
1918 expenditures authorized, . . . . .	5,524 02
1919 expenditures authorized, . . . . .	2,089 26
	<hr/>
	13,198 95
Balance reverted to State treasury, . . . . .	<hr/>
	\$1 05

Sewage filter beds (chapter 124, Resolves of 1917):—

Appropriation, . . . . .	\$17,500 00
1917 expenditures authorized, . . . . .	\$1,743 16
1918 expenditures authorized, . . . . .	5,786 74
1919 expenditures authorized, . . . . .	1,745 09
	<hr/>
	9,274 99
Balance available, . . . . .	<hr/>
	\$8,225 01

*Foxborough State Hospital — Continued.*

## Coal trestle (chapter 121, Resolves of 1916):—

Appropriation, . . . . .	\$4,000 00
1916 expenditures authorized, . . . . .	\$2,639 28
1917 expenditures authorized, . . . . .	299 15
1918 expenditures authorized, . . . . .	983 00
1919 expenditures authorized, . . . . .	78 00
	<hr/>
	3,999 43
Balance reverted to State treasury, . . . . .	\$0 57

## Central service building (chapter 124, Resolves of 1917):—

Appropriation, . . . . .	\$164,000 00
1917 expenditures authorized, . . . . .	\$62 73
1918 expenditures authorized, . . . . .	73,121 42
1919 expenditures authorized, . . . . .	85,308 64
	<hr/>
	158,492 79
Balance available, . . . . .	\$5,507 21

## Acute male receiving ward (chapter 50, Resolves of 1918; chapter 211, Special Acts of 1919):—

Appropriation (1918), . . . . .	\$105,000 00
Appropriation (1919), . . . . .	27,541 72
	<hr/>
	\$132,541 72
1918 expenditures authorized, . . . . .	—
1919 expenditures authorized, . . . . .	\$46,159 94
	<hr/>
	46,159 94
Balance available, . . . . .	\$86,381 78

## Purchase of farm land (chapter 50, Resolves of 1918):—

Appropriation, . . . . .	\$10,500 00
1918 expenditures authorized, . . . . .	\$9,489 57
1919 expenditures authorized, . . . . .	760 06
	<hr/>
	10,249 63
Balance available, . . . . .	\$250 37

## Purchase of Hearn property (chapter 50, Resolves of 1918):—

Appropriation, . . . . .	\$2,850 00
Amount transferred from extraordinary expenses, . . . . .	36 30
	<hr/>
	\$2,886 30
1918 expenditures authorized, . . . . .	2,886 30
	<hr/>



*Foxborough State Hospital — Concluded.*

Purchase of land and buildings (chapter 153, Special Acts of 1919): —

Appropriation, . . . . .	\$34,000 00
1919 expenditures authorized, . . . . .	30,013 08
	<hr/>
Balance available, . . . . .	\$3,986 92

*Gardner State Colony.*

Changes in heating plant (chapter 50, Resolves of 1918): —

Appropriation, . . . . .	\$5,500 00
1918 expenditures authorized, . . . . .	\$2,026 48
1919 expenditures authorized, . . . . .	3,345 64
	<hr/>
	5,372 12
	<hr/>
Balance available, . . . . .	\$127 88

Assembly hall and chapel (chapter 211, Special Acts of 1919): —

Appropriation, . . . . .	\$35,574 00
1919 expenditures authorized, . . . . .	1,108 62
	<hr/>
Balance available, . . . . .	\$34,465 38

Building for disturbed men (chapter 211, Special Acts of 1919): —

Appropriation, . . . . .	\$10,000 00
1919 expenditures authorized, . . . . .	6,516 44
	<hr/>
Balance available, . . . . .	\$3,483 56

Underpass (chapter 211, Special Acts of 1919): —

Appropriation, . . . . .	\$12,000 00
1919 expenditures authorized, . . . . .	—
	<hr/>
Balance available, . . . . .	\$12,000 00

*Grafton State Hospital.*

Boiler, blower and grates (chapter 50, Resolves of 1918): —

Appropriation, . . . . .	\$8,000 00
1918 expenditures authorized, . . . . .	\$1,195 14
1919 expenditures authorized, . . . . .	6,763 22
	<hr/>
	7,958 36
	<hr/>
Balance reverted to State treasury, . . . . .	\$41 64

*Grafton State Hospital* — Continued.

## Hydrotherapeutic equipment (chapter 50, Resolves of 1918): —

Appropriation, . . . . .	\$6,000 00
1918 expenditures authorized, . . . . .	—
1919 expenditures authorized, . . . . .	—
	<hr/>
Balance available, . . . . .	\$6,000 00

## Additional fire protection (chapter 153, Special Acts of 1919): —

Appropriation, . . . . .	\$6,000 00
1919 expenditures authorized, . . . . .	630 00
	<hr/>
Balance available, . . . . .	\$5,370 00

## Vegetable cellar (chapter 211, Special Acts of 1919): —

Appropriation, . . . . .	\$3,411 50
1919 expenditures authorized, . . . . .	—
	<hr/>
Balance available, . . . . .	\$3,411 50

## Repairing old farmhouse (chapter 133, Acts of 1913): —

Appropriation, . . . . .	\$3,300 00
1913-17 expenditures authorized, . . . . .	\$2,179 17
1918 expenditures authorized, . . . . .	232 00
1919 expenditures authorized, . . . . .	822 38
	<hr/>
	3,233 55
	<hr/>
Balance reverted to State treasury, . . . . .	\$66 45

## Remodeling Worcester Department heating system (chapter 123, Resolves of 1917): —

Appropriation, . . . . .	\$89,303 00
1917 expenditures authorized, . . . . .	\$3,402 28
1918 expenditures authorized, . . . . .	71,930 63
1919 expenditures authorized, . . . . .	10,211 37
	<hr/>
	\$5,544 28
	<hr/>
Balance available, . . . . .	\$3,758 72

## Laundry machinery (chapter 123, Resolves of 1917): —

Appropriation, . . . . .	\$3,500 00
1917 expenditures authorized, . . . . .	\$3,285 38
1918 expenditures authorized, . . . . .	33 47
1919 expenditures authorized, . . . . .	126 35
	<hr/>
	3,445 20
	<hr/>
Balance reverted to State treasury, . . . . .	\$54 80

*Grafton State Hospital — Continued.*

## Fire protection (chapter 123, Resolves of 1917):—

Appropriation, . . . . .	\$6,375 00
1917 expenditures authorized, . . . . .	\$2,100 00
1918 expenditures authorized, . . . . .	4,275 00
	<hr/>
	6,375 00
	<hr/>
	—

## Fire protection (chapter 50, Resolves of 1918):—

Appropriation, . . . . .	\$7,000 00
1918 expenditures authorized, . . . . .	—
1919 expenditures authorized, . . . . .	\$6,917 50
	<hr/>
	6,917 50
	<hr/>

Balance reverted to State treasury, . . . . . \$82 50

## Coal trestle and track scales (chapter 50, Resolves of 1918):—

Appropriation, . . . . .	\$10,000 00
1918 expenditures authorized, . . . . .	—
1919 expenditures authorized, . . . . .	\$6,195 80
	<hr/>
	6,195 80
	<hr/>

Balance available, . . . . . \$3,804 20

## Installation of heating system (chapter 123, Resolves of 1916):—

Appropriation, . . . . .	\$23,000 00
1916 expenditures authorized, . . . . .	\$12,120 16
1917 expenditures authorized, . . . . .	10,078 44
1918 expenditures authorized, . . . . .	739 41
1919 expenditures authorized, . . . . .	—
	<hr/>
	22,938 01
	<hr/>

Balance reverted to State treasury, . . . . . \$61 99

## Administration building (chapter 144, Resolves of 1916):—

Appropriation, . . . . .	\$3,000 00
1916 expenditures authorized, . . . . .	\$2,734 40
1917 expenditures authorized, . . . . .	182 83
1918 expenditures authorized, . . . . .	48 80
1919 expenditures authorized, . . . . .	32 00
	<hr/>
	2,998 03
	<hr/>

Balance reverted to State treasury, . . . . . \$1 97

*Grafton State Hospital — Concluded.*

## Kitchen and service building (chapter 144, Resolves of 1916): —

Appropriation, . . . . .	\$5,000 00
1916 expenditures authorized, . . . . .	\$2,302 85
1917 expenditures authorized, . . . . .	2,663 53
1918 expenditures authorized, . . . . .	—
1919 expenditures authorized, . . . . .	—
	<hr/>
	4,966 38
Balance reverted to State treasury, . . . . .	\$33 62

## Additional water supply (chapter 313, General Acts of 1917): —

Appropriation, . . . . .	\$105,000 00
1917 expenditures authorized, . . . . .	\$108 44
1918 expenditures authorized, . . . . .	6,383 29
1919 expenditures authorized, . . . . .	578 58
	<hr/>
	7,070 31
Balance available, . . . . .	\$97,929 69

*Medfield State Hospital.*

## Purchase of land (chapter 51, Resolves of 1916): —

Appropriation, . . . . .	\$8,000 00
1916 expenditures authorized, . . . . .	\$6,739 77
1917 expenditures authorized, . . . . .	335 00
1918 expenditures authorized, . . . . .	80 00
1919 expenditures authorized, . . . . .	627 06
	<hr/>
	7,781 83
Balance available, . . . . .	\$218 17

## Repairing and enlarging sewage (chapter 96, Resolves of 1917): —

Appropriation, . . . . .	\$24,250 00
1917 expenditures authorized, . . . . .	—
1918 expenditures authorized, . . . . .	\$6,891 55
1919 expenditures authorized, . . . . .	8,722 57
	<hr/>
	15,614 12
Balance available, . . . . .	\$8,635 88

## High-pressure steam main (chapter 50, Resolves of 1918): —

Appropriation, . . . . .	\$12,000 00
1918 expenditures authorized, . . . . .	\$1,915 05
1919 expenditures authorized, . . . . .	9,847 60
	<hr/>
	11,762 65
Balance available, . . . . .	\$237 35



*Northampton State Hospital.*

Dining room for employees (chapter 124, Resolves of 1916):—

Appropriation, . . . . .	\$2,300 00
1916 expenditures authorized, . . . . .	—
1917 expenditures authorized, . . . . .	\$2,068 33
1918 expenditures authorized, . . . . .	—
1919 expenditures authorized, . . . . .	—
	<hr/>
	2,068 33
	<hr/>
Balance available, . . . . .	\$231 67

Completion of vacuum system (chapter 97, Resolves of 1917):—

Appropriation, . . . . .	\$1,760 00
1917 expenditures authorized, . . . . .	\$187 41
1918 expenditures authorized, . . . . .	1,079 80
1919 expenditures authorized, . . . . .	490 00
	<hr/>
	1,757 21
	<hr/>
Balance reverted to State treasury, . . . . .	\$2 79

Two nurses' homes (chapter 50, Resolves of 1918):—

Appropriation, . . . . .	\$108,000 00
1918 expenditures authorized, . . . . .	\$13,763 95
1919 expenditures authorized, . . . . .	85,222 45
	<hr/>
	98,986 40
	<hr/>
Balance available, . . . . .	\$9,013 60

Purchase of land and buildings (chapter 50, Resolves of 1918):—

Appropriation, . . . . .	\$5,000 00
1918 expenditures authorized, . . . . .	—
1919 expenditures authorized, . . . . .	\$3,031 15
	<hr/>
	3,031 15
	<hr/>
Balance available, . . . . .	\$1,968 85

*Taunton State Hospital.*

Spur track and trestle (chapter 50, Resolves of 1918):—

Appropriation, . . . . .	\$21,735 00
1918 expenditures authorized, . . . . .	—
1919 expenditures authorized, . . . . .	\$8,668 58
	<hr/>
	8,668 58
	<hr/>
Balance available, . . . . .	\$13,066 42

*Taunton State Hospital — Concluded.*

Horse barn at Raynham Colony (chapter 50, Resolves of 1918):—

Appropriation, . . . . .	\$4,250 00
1918 expenditures authorized, . . . . .	—
1919 expenditures authorized, . . . . .	\$3,508 85
	<hr/>
	3,508 85
	<hr/>
Balance available, . . . . .	\$741 15

*Westborough State Hospital.*

Renewing female wards (chapter 94, Resolves of 1917):—

Appropriation, . . . . .	\$20,977 44
1917 expenditures authorized, . . . . .	\$3,955 36
1918 expenditures authorized, . . . . .	10,393 17
1919 expenditures authorized, . . . . .	6,460 98
	<hr/>
	20,809 51
	<hr/>
Balance available, . . . . .	\$167 93

Extension of water main (chapter 94, Resolves of 1917):—

Appropriation, . . . . .	\$3,000 00
1917 expenditures authorized, . . . . .	\$2,547 62
1918 expenditures authorized, . . . . .	154 00
1919 expenditures authorized, . . . . .	16 35
	<hr/>
	2,717 97
	<hr/>
Balance available, . . . . .	\$282 03

Renovation of Wards 2 and 5 (chapter 50, Resolves of 1918):—

Appropriation, . . . . .	\$25,000 00
1918 expenditures authorized, . . . . .	—
1919 expenditures authorized, . . . . .	\$24,532 66
	<hr/>
	24,532 66
	<hr/>
Balance available, . . . . .	\$467 34

Standpipe and change in water system (chapter 50, Resolves of 1918):—

Appropriation, . . . . .	\$36,500 00
1918 expenditures authorized, . . . . .	\$3,035 08
1919 expenditures authorized, . . . . .	28,029 16
	<hr/>
	31,064 24
	<hr/>
Balance available, . . . . .	\$5,435 76

*Worcester State Hospital.*

## Building for 50 patients (chapter 126, Resolves of 1916): —

Appropriation, . . . . .	\$20,000 00
1916 expenditures authorized, . . . . .	\$19,493 21
1917 expenditures authorized, . . . . .	189 30
1918 expenditures authorized, . . . . .	225 86
1919 expenditures authorized, . . . . .	91 55
	<hr/>
	19,999 92
	<hr/>
Balance reverted to State treasury, . . . . .	\$0 08

## Water supply (chapter 95, Resolves of 1917): —

Appropriation, . . . . .	\$11,385 00
1917 expenditures authorized, . . . . .	—
1918 expenditures authorized, . . . . .	\$1,877 91
1919 expenditures authorized, . . . . .	2,403 98
	<hr/>
	4,281 89
	<hr/>
Balance available, . . . . .	\$7,103 11

## Sewerage system (chapter 337, Special Acts of 1917): —

Appropriation, . . . . .	\$9,000 00
1917 expenditures authorized, . . . . .	\$4,371 02
1918 expenditures authorized, . . . . .	3,760 49
1919 expenditures authorized, . . . . .	853 71
	<hr/>
	8,985 22
	<hr/>
Balance reverted to State treasury, . . . . .	\$14 78

## Renovation of plumbing (chapter 50, Resolves of 1918): —

Appropriation, . . . . .	\$5,500 00
1918 expenditures authorized, . . . . .	\$613 27
1919 expenditures authorized, . . . . .	4,875 19
	<hr/>
	5,488 46
	<hr/>
Balance reverted to State treasury, . . . . .	\$11 54

## Repairing damages by fire (chapter 153 Special Acts of 1919): —

Appropriation, . . . . .	\$15,000 00
1919 expenditures authorized, . . . . .	13,410 63
	<hr/>
Balance available, . . . . .	\$1,589 37

*Worcester State Hospital — Concluded.*

Renovating the plumbing (chapter 153, Special Acts of 1919): —

Appropriation, . . . . .	\$5,500 00
1919 expenditures authorized, . . . . .	—
Balance available, . . . . .	\$5,500 00

Alterations Hillside Farm (chapter 153, Special Acts of 1919): —

Appropriation, . . . . .	\$5,500 00
1919 expenditures authorized, . . . . .	3,584 52
Balance available, . . . . .	\$1,915 48

*Massachusetts School for the Feeble-minded.*

Recreation building (chapter 127, Resolves of 1916): —

Appropriation, . . . . .	\$23,700 00
1916 expenditures authorized, . . . . .	\$3,322 27
1917 expenditures authorized, . . . . .	19,189 73
1918 expenditures authorized, . . . . .	1,124 16
1919 expenditures authorized, . . . . .	32 81
	<hr/> 23,668 97
Balance available, . . . . .	\$31 03

Concrete hay barn, Templeton (chapter 50, Resolves of 1918): —

Appropriation, . . . . .	\$3,500 00
1918 expenditures authorized, . . . . .	\$1,466 63
1919 expenditures authorized, . . . . .	1,470 97
	<hr/> 2,937 60
Balance available, . . . . .	\$562 40

Canning plant at Templeton (chapter 50, Resolves of 1918): —

Appropriation, . . . . .	\$1,000 00
1918 expenditures authorized, . . . . .	\$322 75
1919 expenditures authorized, . . . . .	480 00
	<hr/> 802 75
Balance available, . . . . .	\$197 25

Side track (chapter 50, Resolves of 1918): —

Appropriation, . . . . .	\$25,000 00
1918 expenditures authorized, . . . . .	—
1919 expenditures authorized, . . . . .	\$456 68
	<hr/> 456 68
Balance available, . . . . .	\$24,543 32



*Wrentham State School.*

Home for 22 employees (chapter 109, Resolves of 1915): —

Appropriation, . . . . .	\$14,500 00
1915 expenditures authorized, . . . . .	\$3,873 75
1916 expenditures authorized, . . . . .	7,797 40
1917 expenditures authorized, . . . . .	2,372 30
1918 expenditures authorized, . . . . .	374 72
1919 expenditures authorized, . . . . .	76 40
	<hr/>
	14,494 57

Balance reverted to State treasury, . . . . .	\$5 43
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Dormitory for 105 patients (chapter 109, Resolves of 1915): —

Appropriation, . . . . .	\$51,000 00
1915 expenditures authorized, . . . . .	\$2,597 09
1916 expenditures authorized, . . . . .	33,392 36
1917 expenditures authorized, . . . . .	14,460 86
1918 expenditures authorized, . . . . .	537 97
1919 expenditures authorized, . . . . .	—
	<hr/>
	50,988 28

Balance reverted to State treasury, . . . . .	\$11 72
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Farmer's cottage (chapter 109, Resolves of 1915): —

Appropriation, . . . . .	\$3,600 00
1915 expenditures authorized, . . . . .	—
1916 expenditures authorized, . . . . .	\$1,405 82
1917 expenditures authorized, . . . . .	1,808 19
1918 expenditures authorized, . . . . .	368 01
1919 expenditures authorized, . . . . .	—
	<hr/>
	3,582 02

Balance reverted to State treasury, . . . . .	\$17 98
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Vegetable cellar (chapter 140, Resolves of 1916): —

Appropriation, . . . . .	\$4,800 00
1916 expenditures authorized, . . . . .	\$3,116 33
1917 expenditures authorized, . . . . .	1,248 25
1918 expenditures authorized, . . . . .	416 75
1919 expenditures authorized, . . . . .	—
	<hr/>
	4,781 33

Balance reverted to State treasury, . . . . .	\$18 67
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*Wrentham State School — Concluded.*

Addition to dormitory "G" (chapter 98, Resolves of 1917):—

Appropriation, . . . . .	\$63,770 70
1917 expenditures authorized, . . . . .	\$2,917 72
1918 expenditures authorized, . . . . .	35,432 49
1919 expenditures authorized, . . . . .	25,089 84
	<hr/>
	63,440 05
	<hr/>
Balance available, . . . . .	\$330 65

Brick chimney for heating plant (chapter 50, Resolves of 1918):—

Appropriation, . . . . .	\$5,500 00
1918 expenditures authorized, . . . . .	\$451 87
1919 expenditures authorized, . . . . .	4,257 85
	<hr/>
	4,709 72
	<hr/>
Balance available, . . . . .	\$790 28

Purchase of land (chapter 50, Resolves of 1918):—

Appropriation, . . . . .	\$2,200 00
1918 expenditures authorized, . . . . .	\$4 50
1919 expenditures authorized, . . . . .	1,241 28
	<hr/>
	1,245 78
	<hr/>
Balance available, . . . . .	\$954 22

Purchase of land and buildings (chapter 242, Special Acts of 1919):—

Appropriation, . . . . .	\$8,000 00
1919 expenditures authorized, . . . . .	6,550 00
	<hr/>
Balance available, . . . . .	\$1,450 00

*Hospital for the Insane in the Metropolitan District.*

Purchase of land, plans, etc. (chapter 138, Resolves of 1915):—

Appropriation, . . . . .	\$44,750 68
1915 expenditures authorized, . . . . .	\$350 84
1916 expenditures authorized, . . . . .	44,347 04
1917 expenditures authorized, . . . . .	3 64
1918 expenditures authorized, . . . . .	—
1919 expenditures authorized, . . . . .	—
	<hr/>
	44,701 52
	<hr/>
Balance reverted to State treasury, . . . . .	\$49 16

*School for the Feeble-minded, Belchertown.*

Purchase of land, plans, etc. (chapter 127, Resolves of 1915): —

Appropriation, . . . . .	\$50,000 00
1915 expenditures authorized, . . . . .	—
1916 expenditures authorized, . . . . .	\$48,903 76
1917 expenditures authorized, . . . . .	852 20
1918 expenditures authorized, . . . . .	—
1919 expenditures authorized, . . . . .	98 98
	<hr/>
	49,854 94
Balance reverted to State treasury, . . . . .	\$145 06

Plans, buildings, etc. (chapter 160, Resolves of 1916): —

Appropriation, . . . . .	\$150,000 00
1916 expenditures authorized, . . . . .	\$2,284 18
1917 expenditures authorized, . . . . .	—
1918 expenditures authorized, . . . . .	1,842 25
1919 expenditures authorized, . . . . .	118,707 82
	<hr/>
	122,834 25
Balance available, . . . . .	\$27,165 75

Water supply (chapter 224, General Acts of 1918): —

Appropriation, . . . . .	\$50,000 00
1918 expenditures authorized . . . . .	—
1919 expenditures authorized, . . . . .	—
	<hr/>
	—
Balance available, . . . . .	\$50,000 00

Custodial building (chapter 211, Special Acts of 1919): —

Appropriation, . . . . .	\$84,000 00
Authorized transfer, . . . . .	11,000 00
	<hr/>
	\$95,000 00
1919 expenditures authorized, . . . . .	66 08
	<hr/>
Balance available, . . . . .	\$94,933 92

Dormitory for 105 inmates (chapter 211, Special Acts of 1919): —

Appropriation, . . . . .	\$23,000 00
Authorized transfer, . . . . .	50,000 00
	<hr/>
	\$73,000 00
1919 expenditures authorized, . . . . .	32 75
	<hr/>
Balance available, . . . . .	\$72,967 25

*School for the Feeble-minded, Belchertown — Concluded.*

## Storehouse and bakery (chapter 211, Special Acts of 1919): —

Appropriation, . . . . .	\$60,000 00
Authorized transfer, . . . . .	20,000 00
	<hr/>
	\$80,000 00
1919 expenditures authorized, . . . . .	1,738 41
	<hr/>
Balance available, . . . . .	\$78,261 59

## Laundry building (chapter 211, Special Acts of 1919): —

Appropriation, . . . . .	\$13,000 00
Authorized transfer, . . . . .	20,000 00
	<hr/>
	\$33,000 00
1919 expenditures authorized, . . . . .	721 50
	<hr/>
Balance available, . . . . .	\$32,278 50

## Power house (chapter 211, Special Acts of 1919): —

Appropriation, . . . . .	\$108,000 00
1919 expenditures authorized, . . . . .	1,338 70
	<hr/>
Balance available, . . . . .	\$106,661 30

## Tunnels and piping (chapter 211, Special Acts of 1919): —

Appropriation, . . . . .	\$53,000 00
1919 expenditures authorized, . . . . .	12 00
	<hr/>
Balance available, . . . . .	\$52,988 00

## Road and grading (chapter 211, Special Acts of 1919): —

Appropriation, . . . . .	\$9,000 00
1919 expenditures authorized, . . . . .	174 68
	<hr/>
Balance available, . . . . .	\$8,825 32



## GENERAL MATTERS.

### NEW LEGISLATION.

The following acts were passed by the Legislature of 1919: —

#### GENERAL ACTS, CHAPTER 48.

##### AN ACT PROVIDING A PENALTY FOR ASSISTING IN THE ESCAPE OF PATIENTS FROM CERTAIN INSTITUTIONS.

*Be it enacted, etc., as follows:*

Chapter five hundred and four of the acts of nineteen hundred and nine is hereby amended by striking out section ninety-three, and substituting the following: — *Section 93.* Any person who wilfully permits or assists, or connives at, the escape of a patient from any hospital or receptacle under the supervision of the commission on mental diseases, or who secretes a patient who has escaped therefrom, shall be punished by fine or imprisonment at the discretion of the court. [*Approved March 21, 1919.*]

#### GENERAL ACTS, CHAPTER 49.

##### AN ACT RELATIVE TO THE COMMITMENT OF INSANE PERSONS TO GARDNER STATE COLONY.

*Be it enacted, etc., as follows:*

SECTION 1. The commission on mental diseases may establish a district for the Gardner state colony in accordance with the provisions of section twenty-eight of chapter five hundred and four of the acts of nineteen hundred and nine, and any justice of a police, district or municipal court within such district, may, when so authorized by the commission, commit to the said state colony any insane person residing or being within his jurisdiction who, in his opinion, is a proper subject for its treatment or custody. But no such person shall be so committed unless all the laws applicable to the commitment of an insane person have been complied with. The said justices, when so authorized, may also commit persons to the said state colony for observation, under the provisions of section forty-three of said chapter five hundred and four in order to determine their mental condition.

SECTION 2. The superintendent of the said colony may, when so authorized by the said commission, receive persons from its district who are certified by two physicians to be violently insane, or in other emergency under the provisions of section forty-two of said chapter five hundred and four. He may also, when so authorized, receive voluntary patients under the provisions of section forty-five of said chapter, and persons for temporary care under the provisions of chapter three hundred

and ninety-five of the acts of nineteen hundred and eleven as amended by chapter one hundred and seventy-four of the General Acts of nineteen hundred and fifteen. [*Approved March 26, 1919.*]

GENERAL ACTS, CHAPTER 74.

AN ACT TO MAKE THE WORCESTER DEPARTMENT OF THE GRAFTON STATE HOSPITAL A PART OF THE WORCESTER STATE HOSPITAL.

*Be it enacted, etc., as follows:*

SECTION 1. That portion of the land and buildings of the Grafton state hospital which is situated within the city of Worcester, is hereby separated from said hospital and removed from the control of the trustees thereof, and is made a part of the Worcester state hospital, subject to the authority of the trustees of the latter institution. The furniture and equipment of said buildings are hereby conveyed to the custody and for the use of the Worcester state hospital except such parts of the same as may be reserved by the commission on mental diseases for the use of the Grafton state hospital, which parts may be removed to the main department of said hospital at North Grafton and shall be in the custody of that institution. The rights to take water from, and all other rights of the Grafton state hospital in, Hermitage pond in Worcester, together with the pipe-line and right of way therefor from said pond to the land of said hospital, are hereby conveyed to the trustees of the Worcester state hospital, to have and to hold on the terms upon which they are now held by the Grafton state hospital, or the trustees thereof.

SECTION 2. This act shall take effect on the first day of December, nineteen hundred and nineteen. [*Approved April 3, 1919.*]

GENERAL ACTS, CHAPTER 131.

AN ACT RELATIVE TO THE FILING BY STATE BOARDS AND COMMISSIONS OF RECOMMENDATIONS AND SUGGESTIONS FOR LEGISLATIVE ACTION.

*Be it enacted, etc., as follows:*

Chapter eighteen of the Revised Laws, as amended by chapter four hundred and fifty-two of the acts of nineteen hundred and ten, and by chapters two hundred and twenty-two and two hundred and sixty-nine of the General Acts of nineteen hundred and fifteen, is hereby further amended by striking out section six, and substituting the following:—  
*Section 6.* State boards and commissions shall annually, on or before the first Wednesday in December, deposit with the secretary of the commonwealth such parts of their annual reports which are required to be made to the governor and council or to the general court as contain recommendations or suggestions for legislative action, excluding those parts which, by the provisions of section two of chapter two hundred and forty-four of the General Acts of nineteen hundred and eighteen, are required to be covered by estimates submitted to the supervisor of administration.

Such recommendations and suggestions to be accompanied by drafts of bills embodying the legislation recommended; and the secretary shall forthwith transmit them to the governor and council or to the general court. All reports of special commissions recommending legislation shall be accompanied by drafts of bills embodying the legislation recommended. This section shall not apply to the annual report submitted by the supervisor of administration. [*Approved April 24, 1919.*]

GENERAL ACTS, CHAPTER 145.

AN ACT AUTHORIZING THE COMMITMENT OF CERTAIN PERSONS FOR OBSERVATION PENDING DETERMINATION OF THEIR INSANITY.

*Be it enacted, etc., as follows:*

Chapter five hundred and four of the acts of nineteen hundred and nine is hereby amended by striking out section forty-three and substituting the following:— *Section 43.* If a person is found by two physicians qualified as provided in section thirty-two, as amended by chapter sixty-seven of the General Acts of nineteen hundred and sixteen, to be in such mental condition that his commitment to a hospital for the insane is necessary for his proper care or observation, he may be committed by any of the judges mentioned in section twenty-nine, as amended, to a state hospital for the insane, or to the McLean hospital, for a period of thirty-five days pending the determination of his insanity. Within thirty days after such commitment the superintendent of the hospital to which the person has been committed shall discharge him if he is not insane, and shall notify the judge who committed him, or if he is insane he shall report the patient's mental condition to the said judge with the recommendation that he shall be committed as an insane person, or discharged to the care of his guardian, relatives or friends if he is harmless and can properly be cared for by them. Within the said thirty-five days, the committing judge may authorize a discharge as aforesaid, or he may commit the patient to the hospital as an insane person if, in his opinion, such commitment is necessary. If, in the opinion of the judge, additional medical testimony as to the mental condition of the alleged insane person is desirable, he may appoint a physician to examine and report thereon. [*Approved May 1, 1919.*]

GENERAL ACTS, CHAPTER 152.

AN ACT TO PROVIDE FOR VACATIONS WITH PAY FOR CERTAIN PERSONS REGULARLY EMPLOYED BY THE COMMONWEALTH.

*Be it enacted, etc., as follows:*

SECTION 1. All laborers, workmen and mechanics, who are within the provisions of chapter four hundred and ninety-four of the acts of nineteen hundred and eleven, and amendments, and who are permanently in the service or employ of the commonwealth, of the metropolitan water



and sewerage board or of the metropolitan park commission shall be entitled to an annual vacation of not less than twelve working days with pay.

SECTION 2. This act shall take effect on the first day of December, nineteen hundred and nineteen. [*Approved May 3, 1919.*]

GENERAL ACTS, CHAPTER 277.

AN ACT TO DETERMINE THE NUMBER OF CHILDREN RETARDED IN MENTAL DEVELOPMENT AND TO PROVIDE FOR THEIR INSTRUCTION.

*Be it enacted, etc., as follows:*

SECTION 1. The school committee of each city and town shall, within one year after the passage of this act, and annually thereafter, ascertain, under regulations prescribed by the board of education and the director of the commission on mental diseases, the number of children three years or more retarded in mental development who are in attendance upon the public schools of its city or town, or who are of school age and reside therein.

SECTION 2. At the beginning of the school year of nineteen hundred and twenty, the school committee of each city and town in which there are ten or more children three years or more so retarded shall establish special classes to give such children instruction adapted to their mental attainments, under regulations prescribed by the board of education. [*Approved July 1, 1919.*]

GENERAL ACTS, CHAPTER 278.

AN ACT AUTHORIZING THE COMMISSION ON MENTAL DISEASES TO TAKE LAND IN THE CITY OF WALTHAM FOR A SPUR TRACK.

*Be it enacted, etc., as follows:*

The commission on mental diseases is hereby authorized, with the approval of the governor and council, to purchase or take in fee in behalf of the commonwealth, land in the city of Waltham for a spur track to connect land owned by the commonwealth, and now occupied by the Massachusetts School for the Feeble-minded, with the Central Massachusetts Railroad, owned, operated or leased by the Boston and Maine Railroad. The commission shall have the same powers to acquire land under this act which are given to the metropolitan park commission by chapter four hundred and seven of the acts of eighteen hundred and ninety-three and acts in amendment thereof or in addition thereto; and any person aggrieved by a determination of damages made by the commission may have the same assessed by a jury of the superior court in the manner and subject to the limitations specified in said chapter four hundred and seven, as amended. [*Approved July 1, 1919.*]



## GENERAL ACTS, CHAPTER 279.

AN ACT AUTHORIZING THE COMMISSION ON MENTAL DISEASES TO TAKE  
LAND IN THE TOWN OF NORTHBOROUGH FOR A SPUR TRACK.

*Be it enacted, etc., as follows:*

The commission on mental diseases is hereby authorized, with the approval of the governor and council, to purchase or take in fee in behalf of the commonwealth, land in the town of Northborough for the construction of a spur track to connect land owned by the commonwealth, and now occupied by the Westborough state hospital, with the New York, New Haven and Hartford Railroad. For this purpose the commission shall have the same powers to acquire land which are given to the metropolitan park commission by chapter four hundred and seven of the acts of eighteen hundred and ninety-three and acts in amendment thereof and in addition thereto; and any person aggrieved by a determination of damages made by the commission may have the same assessed by a jury of the superior court in the manner and subject to the limitations specified in said chapter four hundred and seven, as amended. [*Approved July 1, 1919.*]

## GENERAL ACTS, CHAPTER 318.

AN ACT TO PROVIDE FOR THE ESTABLISHMENT OF FREE CLINICS AND A  
REGISTRY FOR THE FEEBLE-MINDED.

*Be it enacted, etc., as follows:*

SECTION 1. The commission on mental diseases may establish and maintain free clinics for the feeble-minded in the districts established under section twenty-eight of chapter five hundred and four of the acts of nineteen hundred and nine, which shall be in charge of physicians of the state schools for the feeble-minded, or of such other physicians skilled in the care and treatment of the feeble-minded as may be designated by the commission. The commission may also employ such persons as may be required properly to conduct the said clinics.

SECTION 2. The commission shall establish and maintain a registry of the feeble-minded, and may report therefrom such statistical information as it may deem proper; but the name of any person so registered shall not be made public except to public officials or other persons having authority over the person so registered, and the records constituting the registry shall not be open to public inspection. [*Approved July 16, 1919.*]

## RESOLVES, CHAPTER 61.

RESOLVE AUTHORIZING THE LEASING OF THE NORFOLK STATE HOSPITAL  
TO THE FEDERAL GOVERNMENT.

*Resolved,* That the governor and council be authorized to lease to the federal government, for the use of any department thereof, the land and buildings, or any part thereof, comprising the Norfolk state hospital, for

a term not exceeding five years and for such rental as the governor and council may fix; but no person shall obtain a settlement in this commonwealth by reason of his residence at the said institution. [*Approved July 8, 1919.*]

Chapter 350 of the General Acts of 1919 authorized the reorganization of over 100 State departments into 20 divisions. The Department of Mental Diseases remains unchanged.

The following is division 13 of chapter 350, which refers to this Department. The name has been changed from the Commission on Mental Diseases to Department of Mental Diseases.

13. *Department of Mental Diseases.*

SECTION 79. The department of mental diseases shall consist of the Massachusetts commission on mental diseases as now organized and existing under chapter two hundred and eighty-five of the acts of nineteen hundred and sixteen, and acts in amendment thereof and in addition thereto. All provisions of law relating to the commission on mental diseases shall continue in full force and effect, except as is otherwise provided in this act.

SECTION 80. The commissioner of mental diseases shall be the executive and administrative head of the department of mental diseases, subject to all provisions of law now in force relating to said commissioner. He may organize the department in such divisions as he may, from time to time, determine, and, with the approval of the governor and council, appoint, and fix the compensation of, an assistant commissioner to discharge the duties of the commissioner during his absence or disability, and such other duties as may be prescribed by the commissioner. Physicians, pathologists and psychiatrists of the department, and engineers, firemen and head farmers employed at institutions under the supervision of the department, shall be exempt from the civil service law, and the rules and regulations made thereunder.

SECTION 81. The Norfolk state hospital, subject to any lease to the federal government made under authority of law, is hereby placed under the supervision and control of the department of mental diseases, which shall exercise over said hospital and the board of trustees thereof the same authority now exercised by the commission on mental diseases over institutions under its supervision and control. The said hospital may be devoted to such uses, in furtherance of the public interests with which the department is charged as the commissioner and associate commissioners may determine.

## SPECIAL APPROPRIATIONS.

The special appropriations for the year 1919, and for ten, eleven and twenty-one year periods, are shown in the following tables: —

*Detailed Statement.*

	1919.	Eleven Years, ending 1919.	Ten Years, ending 1908.	Twenty- one Years, ending 1919.
Worcester Hospital: —				
For renovation of plumbing, . . . . .	\$5,500 00			
Alteration of buildings at Hillside Farm, . . . . .	5,500 00			
Repairing damage of recent fire, . . . . .	15,000 00			
	\$26,000 00	\$216,660 00	\$299,098 44	\$515,758 44
Taunton Hospital, . . . . .	—	\$172,285 00	\$325,205 00	\$497,485 00
Northampton Hospital, . . . . .	—	\$196,185 00	\$217,300 00	\$413,485 00
Danvers Hospital, . . . . .	—	\$152,150 00	\$364,100 00	\$516,250 00
Westborough Hospital, . . . . .	—	\$323,250 00	\$454,625 00	\$777,875 00
Boston Hospital: —				
Constructing and furnishing home to accommodate 90 nurses, . . . . .	\$80,000 00			
Constructing and furnishing congregate dining room for West Group, . . . . .	100,000 00			
Constructing and furnishing congregate dining room for East Group, . . . . .	110,000 00			
	\$290,000 00	\$2,370,813 57	—	\$2,370,813 57
For land taken by eminent domain for Boston, <sup>1</sup> . . . . .	—	\$400,000 00	—	\$400,000 00
Grafton Hospital: —				
For additional fire protection, . . . . .	\$6,000 00			
Constructing vegetable cellar, . . . . .	3,411 50			
	\$9,411 50	\$1,191,689 50	\$517,900 00	\$1,709,589 50
Medfield Hospital, . . . . .	—	\$133,977 00	\$558,700 00	\$692,677 00
Gardner Colony: —				
Constructing and furnishing an assembly hall and chapel, . . . . .	\$35,574 00			
Constructing and furnishing building to accommodate 10 disturbed male patients, . . . . .	10,000 00			
Constructing underpass, . . . . .	12,000 00			
	\$57,574 00	\$188,624 00	\$495,950 00	\$684,574 00
Monson Hospital, . . . . .	—	\$309,745 00	\$431,800 00	\$741,545 00
Foxborough Hospital: —				
Purchase of land and alteration of buildings, . . . . .	\$34,000 00			
To complete construction and furnishing of an acute male ward for 75 patients in addition to amount already appropriated, . . . . .	27,541 72			
	\$61,541 72	\$527,591 72	\$173,150 00	\$700,741 72
Massachusetts School for the Feeble-minded, . . . . .	—	\$121,700 00	\$537,100 00	\$658,800 00

<sup>1</sup> See p. 174.



*Detailed Statement — Concluded.*

	1919.	Eleven Years, ending 1919.	Ten Years, ending 1908.	Twenty- one Years, ending 1919.
Wrentham State School: —				
Purchase of land, . . . . .	\$8,000 00	\$822,560 00	\$247,800 00	\$1,070,360 00
Proposed School at Belchertown: —				
Additional appropriation for custodial building for 140 inmates, . . . . .	\$84,000 00			
Additional appropriation for dormitory for 105 inmates, . . . . .	23,000 00			
Additional appropriation for storehouse and bakery, . . . . .	60,000 00			
Additional appropriation for laundry building, . . . . .	13,000 00			
Constructing and equipping power house, . . . . .	108,000 00			
Connecting tunnels and piping, . . . . .	53,000 00			
For road construction and grading, . . . . .	9,000 00			
	\$350,000 00	\$600,000 00	—	\$600,000 00
Hospital for Insane in the Metropolitan District, . . . . .	—	\$115,000 00	—	\$115,000 00
State Infirmary (mental wards), . . . . .	—	—	\$120,000 00	\$120,000 00
Bridgewater Hospital, . . . . .	—	\$90,000 00	\$235,000 00	\$325,000 00
Norfolk State Hospital: <sup>1</sup> —				
Purchase of land, . . . . .	\$500 00	—	—	\$500 00
Purchase of Boston Insane Hospital (see Boston State Hospital), . . . . .	—	\$1,000,000 00	—	\$1,000,000 00

*Summary of Special Appropriations.*

Insane: —				
Constructing, furnishing and equipping buildings for patients and nurses, . . . . .	\$117,541 72	\$3,080,009 03	\$2,207,525 00	\$5,287,534 03
Number of patients provided for, . . . . .	10	3,298	2,992	6,280
Average per capita cost, . . . . .	—	\$736 77	\$596 27	\$671 01
Number of nurses provided for, . . . . .	90	777	651	1,428
Average per capita cost, . . . . .	—	\$836 69	\$650 49	\$751 81
Patients and nurses provided for, . . . . .	100	4,075	3,643	7,708
Average per capita cost, . . . . .	—	\$755 83	\$605 96	\$685 98
Land, buildings for officers and employ- ees and for administrative purposes, including furnishing and equipment, improvements and repairs, . . . . .	\$326,985 50	\$3,151,589 26	\$1,733,886 44	\$4,885,475 70
Totals, . . . . .	\$444,527 22	\$6,231,598 29	\$3,941,411 44	\$10,173,009 73
Feeble-minded: —				
Constructing, furnishing and equipping buildings for patients and nurses, . . . . .	\$107,000 00	\$837,000 00	\$425,500 00	\$1,262,500 00
Number of patients provided for, . . . . .	—	1,468	840	2,313
Average per capita cost, . . . . .	—	\$511 92	\$435 12	\$482 92
Number of nurses provided for, . . . . .	—	131	82	213
Average per capita cost, . . . . .	—	\$652 67	\$731 70	\$683 09
Patients and nurses provided for, . . . . .	—	1,599	922	2,526
Average per capita cost, . . . . .	—	\$523 45	\$461 50	\$499 80
Land, buildings for officers and employ- ees, and for administrative purposes, including furnishing and equipment, improvements and repairs, . . . . .	\$251,000 00	\$707,260 00	\$359,400 00	\$1,066,660 00
Totals, . . . . .	\$358,000 00	\$1,544,260 00	\$784,900 00	\$2,329,160 00

<sup>1</sup> Placed under the supervision of this Department, Dec. 1, 1919; formerly under Board of Charity.



*Summary of Special Appropriations — Concluded.*

	1919.	Eleven Years, ending 1919.	Ten Years, ending 1908.	Twenty- one Years, ending 1919.
Epileptic (sane): —				
Constructing, furnishing and equipping buildings for patients and nurses, . .	—	\$87,000 00	\$152,550 00	\$239,550 00
Number of patients provided for, . .	—	150	192	342
Average per capita cost, . . . .	—	\$560 00	\$732 03	\$656 57
Number of nurses provided for, . .	—	4	27	31
Average per capita cost, . . . .	—	\$750 00	\$444 44	\$483 87
Patients and nurses provided for, . .	—	154	219	373
Average per capita cost, . . . .	—	\$564 93	\$696 57	\$642 22
Land, buildings for officers and employ- ees and for administrative purposes, including furnishing and equipment, improvements and repairs, . . . .	—	\$64,372 50	\$63,350 00	\$127,722 50
Totals, . . . . .	—	\$151,372 50	\$215,900 00	\$367,272 50
Inebriate: —				
Land, buildings for officers and employ- ees and for administrative purposes, including furnishing and equipment, improvements and repairs, . . . .	\$500 00	\$5,500 00	\$35,517 00	\$41,017 00
All classes: —				
Constructing, furnishing and equipping buildings for patients and nurses, . .	\$224,541 72	\$4,004,009 03	\$2,785,575 00	\$6,789,584 03
Number of patients provided for, . .	10	4,916	4,024	8,935
Average per capita cost, . . . .	—	\$664 23	\$596 11	\$621 76
Number of nurses provided for, . .	90	912	760	1,672
Average per capita cost, . . . .	—	\$809 88	\$651 94	\$738 09
Patients and nurses provided for, . .	100	5,828	4,784	10,607
Average per capita cost, . . . .	—	\$687 02	\$583 27	\$640 10
Land, buildings for officers and employ- ees and for administrative purposes, including furnishing and equipment, improvements and repairs, . . . .	\$578,485 50	\$3,928,721 76	\$2,192,153 44	\$6,120,875 20
Totals, . . . . .	\$803,027 22	\$7,932,730 79	\$4,977,728 44	\$12,910,459 23
Average amount appropriated annually, .	—	\$721,157 34	\$497,772 84	\$614,738 77
Purchase of the Boston Insane Hospital, .	—	\$1,000,000 00	—	\$1,000,000 00
Totals, . . . . .	\$803,027 22	\$8,932,730 79	\$4,977,728 44	\$13,910,459 23



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# FINANCIAL STATISTICS

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TABLE 1. — *Balance Sheet, 1919.*

Inventory, Nov. 30, 1918,	\$20,183,064 58	Inventory, Nov. 30, 1919,	\$20,730,612 50
Unexpended balance of special appropriations, . . .	1,327,409 88	Unexpended balance of special appropriations, . . .	1,300,952 62
Accounts receivable, . . . . .	54,324 25	Unexpended balance of maintenance appropriations reverting to State treasury, . . . . .	506,918 24
Private funds, . . . . .	82,315 80	Accounts receivable, . . . . .	66,164 09
Total resources, . . . . .	\$21,647,114 51	Private funds, . . . . .	79,978 06
Net increase in value of property, . . . . .	657,296 64	Total resources, . . . . .	\$22,684,625 51
Maintenance appropriation granted, . . . . .	6,063,886 32	Net depreciation in value of property, . . . . .	100,246 62
Special appropriation granted, . . . . .	802,527 22	Expenditures from maintenance appropriations, . . . . .	5,556,968 08
Resources from all sources except State Treasurer, . . . . .	497,600 04	Expenditures from special appropriations, . . . . .	828,306 55
Aggregate, . . . . .	\$29,668,424 73	Unexpended balances of special appropriations reverting to State treasury, . . . . .	677 93
		Money received and remitted to State treasury, . . . . .	497,600 04
		Aggregate, . . . . .	\$29,668,424 73

TABLE 2. — *Financial Summary for the Year ending Nov. 30, 1919.*

INSTITUTIONS.	RESOURCES Nov. 30, 1919.					
	Inventory.	Unexpended Balance of Special Appropriations.	Unexpended Balance of Maintenance Appropriation reverting to State Treasury.	Accounts Receivable.	Private Funds.	Total Resources.
The insane: —						
Worcester Hospital, . . . . .	\$2,173,848 87	\$16,107 96	\$66,022 28	\$8,205 53	\$17,165 27	\$2,281,349 91
Taunton Hospital, . . . . .	983,127 37	13,807 57	28,456 63	4,897 51	—	1,030,289 08
Northampton Hospital, . . . . .	1,197,906 13	11,214 12	35,693 23	8,483 74	772 69	1,254,069 91
Danvers Hospital, . . . . .	2,595,558 97	8,198 78	44,683 81	11,226 82	—	2,659,668 38
Westborough Hospital, . . . . .	1,466,440 57	6,353 06	25,571 52	12,871 94	4,019 43	1,515,256 52
Boston Hospital (including Psychopathic Department), . . . . .	3,474,582 55	408,536 73	19,489 19	10,305 82	—	3,913,114 29
Grafton Hospital, . . . . .	2,184,328 21	120,274 11	86,504 96	2,955 50	—	2,394,062 78
Medfield Hospital, . . . . .	1,839,170 81	9,091 40	23,823 93	2,750 52	—	1,874,836 66
Foxborough Hospital, . . . . .	809,853 80	104,351 29	6,297 50	1,021 75	—	921,524 34
Gardner Colony, . . . . .	714,503 88	50,076 82	24,551 38	318 70	—	789,450 78
Totals, . . . . .	\$17,439,321 16	\$748,011 84	\$361,094 43	\$63,237 83	\$21,957 39	\$18,633,622 65
Miscellaneous: —						
Monson Hospital, . . . . .	\$1,002,280 52	—	\$60,406 24	\$1,435 98	—	\$1,064,122 74
School for Feeble-minded at Waltham, . . . . .	1,136,349 59	\$25,334 00	45,328 08	804 30	\$58,020 67	1,265,836 64
Wrentham School, . . . . .	1,132,500 23	3,525 15	40,089 49	685 98	—	1,176,800 85
Totals, . . . . .	\$3,271,130 34	\$28,859 15	\$145,823 81	\$2,926 26	\$58,020 67	\$35,067,760 23
Totals, hospitals and miscellaneous, . . . . .	\$20,710,451 50	\$776,870 99	\$506,918 24	\$66,164 09	\$79,978 06	\$22,140,382 88
Uncompleted projects: —						
Metropolitan Hospital, . . . . .	\$9,811 00	—	—	—	—	\$9,811 00
School for Feeble-minded at Belchertown, . . . . .	10,350 00	\$524,081 63 <sup>1</sup>	—	—	—	534,431 63
Totals, . . . . .	\$20,161 00	\$524,081 63	—	—	—	\$544,242 63
Aggregates, . . . . .	\$20,730,612 50	\$1,300,952 62	\$506,918 24	\$66,164 09	\$79,978 06	\$22,684,625 51

<sup>1</sup> Included in Wrentham.

TABLE 2. — *Financial Summary for the Year ending Nov. 30, 1919* — Continued.

INSTITUTIONS.	Net Decrease in Resources during Year 1919.	EXPENDITURES.		Unexpended Balance of Special Appropriation reverting to State Treasury.	Money remitted to State Treasury from Receipts.	Aggregates.
		Maintenance Appropriation.	Special Appropriation.			
The insane: —						
Worcester Hospital, . . . . .	—	\$473,142 72	\$25,219 58	\$26 40	\$68,389 70	\$2,848,128 31
Taunton Hospital, . . . . .	—	445,500 97	12,177 43	—	39,399 14	1,527,366 62
Northampton Hospital, . . . . .	\$20,305 47	308,615 59	88,743 60	2 79	70,904 28	1,742,641 64
Danvers Hospital, . . . . .	34,429 03	433,831 52	26,670 84	—	82,472 89	3,237,072 66
Westborough Hospital, . . . . .	—	466,865 30	59,039 15	—	92,441 42	2,133,602 39
Boston Hospital (including Psychopathic Department), . . . . .	—	669,097 56	225,244 99	28 91	53,793 60	4,861,279 35
Grafton Hospital, . . . . .	44,189 72	593,268 83	32,277 20	342 97	22,768 24	3,086,909 74
Medfield Hospital, . . . . .	—	547,628 81	19,197 23	—	15,840 65	2,437,503 35
Foxborough Hospital, . . . . .	—	198,631 70	166,219 08	1 75	9,603 14	1,295,980 01
Gardner Colony, . . . . .	—	285,072 42	10,970 70	—	7,396 56	1,092,890 46
Totals, . . . . .	\$98,924 22	\$4,421,655 42	\$665,759 80	\$402 82	\$463,009 62	\$24,283,374 53
Miscellaneous: —						
Monson Hospital, . . . . .	—	\$305,167 55	—	—	\$18,876 84	\$1,388,167 13
School for Feeble-minded at Waltham, . . . . .	\$1,322 40	481,177 31	\$2,440 46	—	11,532 15	1,762,308 96
Wrentham School, . . . . .	—	348,967 80	37,215 37	\$53 80	4,181 43	1,567,219 25
Totals, . . . . .	\$1,322 40	\$1,135,312 66	\$39,655 83	\$53 80	\$34,590 42	\$4,717,695 34
Totals, hospitals and miscellaneous, . . . . .	\$100,246 62	\$5,556,968 08	\$705,415 63	\$456 62	\$497,600 04	\$29,001,069 87
Uncompleted projects: —						
Metropolitan Hospital, . . . . .	—	—	—	\$49 16	—	\$9,860 16
School for Feeble-minded at Belchertown, . . . . .	—	—	\$122,890 92	172 15	—	637,494 70
Totals, . . . . .	—	—	\$122,890 92	\$221 31	—	\$667,354 86
Aggregates, . . . . .	\$100,246 62	\$5,556,968 08	\$828,306 55	\$677 93	\$497,600 04	\$29,668,424 73

TABLE 2. — *Financial Summary for the Year ending Nov. 30, 1919* — Continued.

RESOURCES Nov. 30, 1918.					
INSTITUTIONS.					
	Inventory.	Unexpended Balance of Special Appropriations.	Accounts Receivable.	Private Funds.	Total Resources.
The insane: —					
Worcester Hospital, . . . . .	\$2,136,402 46	\$15,353 94	\$4,629 32	\$16,419 08	\$2,172,804 80
Taunton Hospital, . . . . .	967,359 45	25,985 00	5,194 83	—	998,539 28
Northampton Hospital, . . . . .	1,216,099 50	99,960 51	5,989 14	5,379 39	1,327,428 54
Danvers Hospital, . . . . .	2,631,125 63	34,869 62	10,089 19	—	2,676,084 44
Westborough Hospital, . . . . .	1,341,282 62	65,392 21	4,579 28	3,934 23	1,415,188 34
Easton Hospital (including Psychopathic Department), . . . . .	3,307,100 14	343,810 63	9,468 97	—	3,660,379 74
Grafton Hospital, . . . . .	2,223,103 28	143,482 78	8,370 15	—	2,374,956 21
Medfield Hospital, . . . . .	1,808,443 57	28,288 63	2,152 48	—	1,838,884 68
Foxborough Hospital, . . . . .	625,477 52	209,030 40	620 25	—	835,128 17
Gardner Colony, . . . . .	686,312 19	3,473 52	351 41	—	690,137 12
Totals, . . . . .	\$16,942,706 36	\$969,647 24	\$51,445 02	\$25,732 70	\$17,989,531 32
Miscellaneous: —					
Monson Hospital, . . . . .	\$995,173 76	—	\$1,396 98	—	\$996,570 74
School for Feeble-minded at Waltham, . . . . .	1,138,831 18	\$27,774 46	1,082 68	\$56,583 10	1,224,271 42
Wrentham School, . . . . .	1,086,192 28	32,794 32	399 57	—	1,119,386 17
Totals, . . . . .	\$3,220,197 22	\$60,568 78	\$2,879 23	\$56,583 10	\$3,340,228 33
Totals, hospitals and miscellaneous, . . . . .	\$20,162,903 58	\$1,030,216 02	\$54,324 25	\$82,315 80	\$21,329,759 65
Uncompleted projects: —					
Metropolitan Hospital, . . . . .	\$9,811 00	\$49 16	—	—	\$9,860 16
School for Feeble-minded at Belchertown, . . . . .	10,350 00	196,144 70	—	—	206,494 70
Totals, . . . . .	\$20,161 00	\$196,193 86	—	—	\$216,354 86
Aggregates, . . . . .	\$20,183,064 58	\$1,226,409 88	\$54,324 25	\$82,315 80	\$21,546,114 51



TABLE 2. — *Financial Summary for the Year ending Nov. 30, 1919* — Concluded.

INSTITUTIONS.	Net Increase in Valuation.	APPROPRIATIONS.		Receipts from All Sources except State Treasurer.	Aggregates.
		Maintenance.	Special.		
The insane: —					
Worcester Hospital, . . . . .	\$41,768 81	\$539,165 00	\$26,000 00	\$68,389 70	\$2,848,128 31
Taunton Hospital, . . . . .	15,470 60	473,957 60	—	39,399 14	1,527,366 62
Northampton Hospital, . . . . .	—	344,308 82	—	70,904 28	1,742,641 64
Danvers Hospital, . . . . .	—	478,515 33	—	82,472 89	3,237,072 66
Westborough Hospital, . . . . .	133,535 81	492,436 82	—	92,441 42	2,133,602 39
Roston Hospital (including Psychopathic Department), . . . . .	168,519 26	688,586 75	290,000 00	53,793 60	4,861,279 35
Grafton Hospital, . . . . .	—	679,773 79	9,411 50	22,768 24	3,086,909 74
Medfield Hospital, . . . . .	31,325 28	571,452 74	—	15,840 65	2,457,503 35
Foxborough Hospital, . . . . .	184,777 78	204,929 20	61,541 72	9,603 14	1,295,980 01
Gardner Colony, . . . . .	28,158 98	309,623 80	57,574 00	7,396 56	1,092,890 46
Totals, . . . . .	\$603,556 52	\$4,782,749 85	\$444,527 22	\$463,009 62	\$24,283,374 53
Miscellaneous: —					
Monson Hospital, . . . . .	\$7,145 76	\$365,573 79	—	\$18,876 84	\$1,388,167 13
School for Feeble-minded at Waltham, . . . . .	—	526,505 39	—	11,532 15	1,762,308 96
Wrentham School, . . . . .	46,594 36	389,057 29	\$8,000 00	4,181 43	1,567,219 25
Totals, . . . . .	\$53,740 12	\$1,281,136 47	\$8,000 00	\$34,590 42	\$4,717,695 34
Totals, hospitals and miscellaneous, . . . . .	\$657,296 64	\$6,063,886 32	\$452,527 22	\$497,600 04	\$29,001,069 87
Uncompleted projects: —					
Metropolitan Hospital, . . . . .	—	—	—	—	\$9,860 16
School for Feeble-minded at Belchertown, . . . . .	—	—	\$350,000 00	—	657,494 70
Totals, . . . . .	—	—	\$350,000 00	—	\$667,354 86
Aggregates, . . . . .	\$657,296 64	\$6,063,886 32	\$802,527 22	\$497,600 04	\$29,668,424 73

TABLE 3. — *Inventory of State Institutions, Nov. 30, 1919.*

INSTITUTIONS.	REAL ESTATE.						
	LAND.		BUILDINGS.				Totals.
	Acres.	Value.	Patients.	Nurses.	Farm, Stable and Grounds.	Miscella- neous.	
The insane:—							
Worcester Hospital,	578	\$274,040 00	\$1,205,737 82	\$100,268 79	\$95,751 72	\$1,700 00	\$1,403,458 33
Taunton Hospital,	336	40,500 00	409,124 00	69,040 00	57,998 85	81,735 55	617,898 40
Northampton Hospital,	513	120,787 50	468,464 25	85,222 45	42,800 00	80,992 00	677,478 70
Danvers Hospital,	517	80,452 50	1,735,968 71	61,900 00	33,500 00	123,327 89	1,954,696 60
Westborough Hospital,	764	52,824 00	554,318 64	45,050 00	28,471 63	45,318 00	673,158 27
Boston Hospital (including Psychopathic Department),	235	508,500 00	1,899,100 37	75,044 66	15,587 50	214,425 00	2,204,157 53
Grafton Hospital,	919	155,036 00	996,540 00	106,985 00	15,000 00	226,200 00	1,344,725 00
Medfield Hospital,	617	37,650 00	734,438 12	163,452 53	65,587 00	412,405 89	1,375,883 54
Foxborough Hospital,	283	40,100 00	471,065 80	52,250 00	5,615 00	35,815 00	564,745 80
Gardner Colony,	1,848	26,880 00	232,844 67	14,782 70	40,214 43	66,483 54	354,325 34
Totals,	6,610	\$1,336,770 00	\$8,707,602 38	\$773,996 13	\$400,526 13	\$1,288,402 87	\$11,170,527 51
Miscellaneous:—							
Monson Hospital,	661	\$14,165 00	\$407,981 43	\$35,658 75	\$26,869 39	\$71,589 48	\$542,099 05
School for Feeble-minded at Waltham,	1,992	52,150 00	425,657 25	80,025 00	25,583 60	105,441 56	636,707 41
Wrentham School,	540	15,220 00	500,860 00	69,650 00	20,940 00	103,362 00	694,812 00
Totals,	3,193	\$81,535 00	\$1,334,498 68	\$185,333 75	\$73,392 99	\$280,393 04	\$1,873,618 46
Totals, hospitals and miscellaneous,	9,803	\$1,418,305 00	\$10,042,101 06	\$959,329 88	\$473,919 12	\$1,568,795 91	\$13,044,145 97

TABLE 3. — *Inventory of State Institutions, Nov. 30, 1919* — Continued.

INSTITUTIONS.	REAL ESTATE — CON.					Aggregates.
	BETTERMENTS.					
	Water System and Ap- purtenances.	Drainage System and Ap- purtenances.	Heating and Lighting System and Ap- purtenances.	Miscellaneous.	Totals.	
The insane: —						
Worcester Hospital, . . . . .	\$98,554 54	—	\$103,823 02	\$28,731 30	\$231,108 86	\$1,908,607 19
Taunton Hospital, . . . . .	37,802 54	\$17,312 86	45,149 99	19,756 50	120,021 89	778,420 29
Northampton Hospital, . . . . .	21,363 08	20,709 50	27,805 92	147,648 92	217,527 42	1,015,793 62
Danvers Hospital, . . . . .	111,807 29	—	170,736 00	48,248 25	330,791 54	2,365,940 64
Westborough Hospital, . . . . .	120,270 44	25,663 76	82,094 88	3,847 13	231,876 21	957,858 48
Poston Hospital (including Psychopathic Department), . . . . .	780 00	290 22	17,920 20	491,148 44	510,138 86	3,222,796 39
Grafton Hospital, . . . . .	52,634 12	52,597 54	153,045 58	193,959 90	452,237 14	1,951,998 14
Medfield Hospital, . . . . .	54,909 98	22,302 57	105,206 80	16,053 50	198,472 85	1,612,006 39
Foxborough Hospital, . . . . .	7,389 60	17,619 67	78,455 67	—	103,464 94	708,310 74
Gardner Colony, . . . . .	34,978 82	24,161 13	122,130 73	6,376 01	187,646 69	568,852 03
Totals, . . . . .	\$540,490 41	\$180,657 25	\$906,368 79	\$955,769 95	\$2,583,286 40	\$15,090,583 91
Miscellaneous: —						
Monson Hospital, . . . . .	\$24,274 22	\$25,514 17	\$18,594 17	\$171,141 62	\$239,524 18	\$795,788 23
School for Feeble-minded at Waltham, . . . . .	—	—	—	198,753 18	198,753 18	887,610 59
Wrentham School, . . . . .	22,570 96	55,716 04	150,793 28	—	229,080 28	939,112 28
Totals, . . . . .	\$46,845 18	\$81,230 21	\$169,387 45	\$369,894 80	\$667,357 64	\$2,622,511 10
Totals, hospitals and miscellaneous, . . . . .	\$587,335 59	\$261,887 46	\$1,075,756 24	\$1,325,664 75	\$3,250,644 04	\$17,713,095 01

TABLE 3. — *Inventory of State Institutions, Nov. 30, 1919* — Continued.

REAL AND PERSONAL PROPERTY.									
INSTITUTIONS.	TRAVEL, TRANSPORTATION AND OFFICE EXPENSES.		FOOD.		CLOTHING AND MATERIALS.		FURNISHINGS AND HOUSEHOLD SUPPLIES.		
	Amount.	Increase.	Amount.	Increase.	Amount.	Increase.	Amount.	Increase.	
The insane:—									
Worcester Hospital, . . . . .	\$3,818 71	\$312 90 <sup>1</sup>	\$16,416 19	\$4,087 49	\$28,381 52	\$19,878 70	\$101,478 01	\$129 67 <sup>1</sup>	
Taunton Hospital, . . . . .	5,998 17	1,202 86 <sup>1</sup>	23,321 32	344 05	25,430 83	9,137 20	72,169 52	502 70	
Northampton Hospital, . . . . .	3,044 60	411 00 <sup>1</sup>	15,633 21	5,904 40	15,351 12	9,608 51	70,771 97	86,550 19 <sup>1</sup>	
Danvers Hospital, . . . . .	9,281 08	1,731 37 <sup>1</sup>	25,534 67	13,695 82 <sup>1</sup>	23,546 16	10,920 64	83,453 45	507 18 <sup>1</sup>	
Westborough Hospital, . . . . .	1,164 99	1,218 55 <sup>1</sup>	10,253 29	10,355 22 <sup>1</sup>	23,418 56	2,566 12	113,435 14	14,862 52	
Boston Hospital (including Psychopathic De- partment), . . . . .	4,218 00	1,288 95 <sup>1</sup>	15,673 48	731 85 <sup>1</sup>	19,510 99	2,710 42	140,750 82	18,884 25	
Grafton Hospital, . . . . .	693 18	180 13	17,527 39	2,532 15	38,907 40	13,784 50	83,051 19	3,796 27	
Medfield Hospital, . . . . .	2,764 06	1,568 82 <sup>1</sup>	18,966 14	3,476 90	29,982 18	1,546 06 <sup>1</sup>	71,559 39	7,562 95	
Foxborough Hospital, . . . . .	3,545 26	8 03	14,798 20	5,413 47	6,064 57	1,147 67 <sup>1</sup>	35,177 62	3,760 49	
Gardner Colony, . . . . .	4,939 50	1,689 32	6,414 15	416 92	21,866 90	172 66 <sup>1</sup>	50,011 72	4,766 16	
Totals, . . . . .	\$39,467 55	\$5,856 97 <sup>1</sup>	\$164,538 04	\$2,607 51 <sup>1</sup>	\$232,460 23	\$67,739 70	\$821,858 83	\$33,051 70 <sup>1</sup>	
Miscellaneous:—									
Monson Hospital, . . . . .	\$2,541 24	\$1,375 97 <sup>1</sup>	\$12,484 25	\$396 29 <sup>1</sup>	\$15,799 71	\$7,129 00	\$90,204 67	\$4,723 33 <sup>1</sup>	
School for Feeble-minded at Waltham, . . . . .	4,699 99	366 37 <sup>1</sup>	21,613 48	3,284 28 <sup>1</sup>	18,495 69	1,668 32	78,274 76	3,889 38 <sup>1</sup>	
Wrentham School, . . . . .	4,158 17	396 30	24,713 85	7,960 52	24,051 29	2,352 18 <sup>1</sup>	89,748 61	16,666 97	
Totals, . . . . .	\$11,399 40	\$1,346 04 <sup>1</sup>	\$58,811 58	\$4,349 95	\$58,316 69	\$6,445 14	\$258,228 04	\$8,054 26	
Totals, hospitals and miscellaneous, . . . . .	\$50,866 95	\$7,203 01 <sup>1</sup>	\$223,349 62	\$1,742 44	\$290,776 92	\$74,184 84	\$1,080,086 87	\$24,997 44 <sup>1</sup>	

1 Decrease.



TABLE 3. — *Inventory of State Institutions, Nov. 30, 1919* — Continued.

INSTITUTIONS.	REAL AND PERSONAL PROPERTY — CON.							
	MEDICAL AND GENERAL CARE.		HEAT, LIGHT AND POWER.		FARM AND STABLE.		GROUNDS.	
	Amount.	Increase.	Amount.	Increase.	Amount.	Increase.	Amount.	Increase.
The insane: —								
Worcester Hospital, . . . . .	\$13,902 27	\$7,352 41 <sup>1</sup>	\$37,205 43	\$2,229 45 <sup>1</sup>	\$46,972 16	\$7,401 20 <sup>1</sup>	\$5,441 82	\$3,224 73
Taunton Hospital, . . . . .	8,577 18	564 13 <sup>1</sup>	21,829 34	13,225 42 <sup>1</sup>	40,422 48	1,856 60 <sup>1</sup>	789 29	586 16 <sup>1</sup>
Northampton Hospital, . . . . .	1,830 87	1,511 63 <sup>1</sup>	11,009 86	6,499 20 <sup>1</sup>	44,061 02	3,991 88 <sup>1</sup>	3,501 69	78 47
Danvers Hospital, . . . . .	12,918 59	2,197 30 <sup>1</sup>	8,808 82	33,798 09 <sup>1</sup>	41,228 87	13,202 56 <sup>1</sup>	4,686 58	176 23
Westborough Hospital, . . . . .	7,901 11	1,068 93	288,438 55	47,397 68	49,423 48	1,649 05 <sup>1</sup>	5,880 91	5,173 91
Boston Hospital (including Psychopathic Department), . . . . .	7,763 47	5,311 63 <sup>1</sup>	36,561 73	64,871 02 <sup>1</sup>	15,933 91	5,680 01 <sup>1</sup>	704 15	4,527 77 <sup>1</sup>
Grafton Hospital, . . . . .	1,950 10	258 55 <sup>1</sup>	36,757 22	102,974 67 <sup>1</sup>	34,176 67	34,176 67	—	31,875 43 <sup>1</sup>
Medfield Hospital, . . . . .	10,177 84	5,224 18	25,668 80	45,041 46 <sup>1</sup>	63,328 86	7,244 03	335 19	192 43 <sup>1</sup>
Foxborough Hospital, . . . . .	7,304 50	1,127 68	8,836 14	11,659 89 <sup>1</sup>	19,560 33	314 08 <sup>1</sup>	—	4,280 00 <sup>1</sup>
Gardner Colony, . . . . .	3,256 81	741 02 <sup>1</sup>	11,997 51	3,887 45 <sup>1</sup>	32,987 77	5,931 82	393 67	581 35 <sup>1</sup>
Totals, . . . . .	\$75,582 74	\$10,515 88 <sup>1</sup>	\$487,113 40	\$236,788 97 <sup>1</sup>	\$388,095 55	\$13,257 14	\$21,733 30	\$33,389 80 <sup>1</sup>
Miscellaneous: —								
Monson Hospital, . . . . .	\$11,366 92	\$1,707 50	\$15,323 52	\$2,114 09 <sup>1</sup>	\$35,930 32	\$853 68	\$4,116 33	\$3,532 51
School for Feeble-minded at Waltham, . . . . .	14,490 51	939 76	42,178 65	2,630 53	55,076 91	607 36	6 01	16 53 <sup>1</sup>
Wrentham School, . . . . .	2,299 09	372 53 <sup>1</sup>	10,077 71	12,477 67 <sup>1</sup>	33,252 30	3,713 15	339 34	339 34
Totals, . . . . .	\$28,156 52	\$2,274 73	\$67,579 88	\$11,961 23 <sup>1</sup>	\$124,259 53	\$5,174 19	\$4,461 68	\$3,855 32
Totals, hospitals and miscellaneous, . . . . .	\$103,739 26	\$8,241 15 <sup>1</sup>	\$554,693 28	\$248,750 20 <sup>1</sup>	\$512,355 08	\$18,431 33	\$26,194 98	\$29,534 48 <sup>1</sup>

<sup>1</sup> Decrease.

TABLE 3. — *Inventory of State Institutions, Nov. 30, 1919* — Continued.

REAL AND PERSONAL PROPERTY — CON.						
INSTITUTIONS.	REPAIRS.		TOTAL VALUATION OF PER- SONAL PROPERTY.		TOTAL VALUATION OF REAL PROPERTY.	
	Amount.	Increase.	Amount.	Increase.	Amount.	Increase.
The insane: —						
Worcester Hospital, . . . . .	\$11,625 57	\$4,761 47	\$265,241 68	\$14,526 76	\$1,908,607 19	\$32,919 65
Taunton Hospital, . . . . .	6,168 95	530 17	204,707 08	6,921 05 <sup>1</sup>	778,420 29	22,688 97
Northampton Hospital, . . . . .	16,908 17	164 96	182,112 51	83,207 56 <sup>1</sup>	1,015,793 62	65,014 19
Danvers Hospital, . . . . .	20,160 11	482 11 <sup>1</sup>	229,618 33	54,517 56 <sup>1</sup>	2,365,940 64	18,950 90
Westborough Hospital, . . . . .	8,666 06	3,121 20 <sup>1</sup>	508,582 09	54,725 14	957,858 48	70,432 81
Boston Hospital (including Psychopathic Department), . . . . .	10,669 61	2,406 50	251,786 16	58,410 06 <sup>1</sup>	3,222,796 39	225,892 47
Grafton Hospital, . . . . .	19,266 92	3,159 18 <sup>1</sup>	232,330 07	81,798 11 <sup>1</sup>	1,951,998 14	43,023 04
Medfield Hospital, . . . . .	4,381 96	2,364 90 <sup>1</sup>	227,164 42	27,205 61 <sup>1</sup>	1,612,006 39	57,932 85
Foxborough Hospital, . . . . .	6,256 44	6,256 44	101,543 06	835 53 <sup>1</sup>	708,310 74	185,211 81
Gardner Colony, . . . . .	13,783 82	3,826 60	145,651 85	11,248 34	568,852 03	16,943 35
Totals, . . . . .	\$117,887 61	\$8,818 75	\$2,348,737 25	\$232,395 24 <sup>1</sup>	\$15,090,583 91	\$729,010 04
Miscellaneous: —						
Monson Hospital, . . . . .	\$18,755 33	\$381 97	\$206,492 29	\$5,064 98	\$795,788 23	\$2,041 78
School for Feeble-minded at Waltham, . . . . .	13,903 00	1,910 04	248,739 00	199 45	887,610 59	2,681 04 <sup>1</sup>
Wrentham School, . . . . .	4,747 59	1,130 21	193,387 95	15,004 11	939,112 28	31,303 84
Totals, . . . . .	\$37,405 92	\$3,422 22	\$648,619 24	\$20,268 54	\$2,622,511 10	\$30,664 58
Totals, hospitals and miscellaneous, . . . . .	\$155,293 53	\$12,240 97	\$2,997,356 49	\$212,126 70 <sup>1</sup>	\$17,713,095 01	\$759,674 62

<sup>1</sup> Decrease.

TABLE 3. — *Inventory of State Institutions, Nov. 30, 1919 — Concluded.*

REAL AND PERSONAL PROPERTY — CON.						
INSTITUTIONS.	TOTAL REAL AND PERSONAL.			PRIVATE FUNDS.		TOTAL INVENTORY.
			Increase.	Amount.	Increase.	Amount.
	Amount.					
The insane: —						
Worcester Hospital, . . . . .	\$2,173,848 87	\$37,446 41		\$17,165 27	\$746 19	\$2,191,014 14
Taunton Hospital, . . . . .	983,127 37	15,767 92		—	—	983,127 37
Northampton Hospital, . . . . .	1,197,906 13	18,193 37 <sup>1</sup>		772 69	4,606 70 <sup>1</sup>	1,198,678 82
Danvers Hospital, . . . . .	2,595,558 97	35,566 66 <sup>1</sup>		—	—	2,595,558 97
Westborough Hospital, . . . . .	1,466,440 57	125,157 95		—	—	1,466,440 57
Boston Hospital (including Psychopathic Department), . . . . .	3,474,582 55	167,482 41		—	—	3,474,582 55
Grafton Hospital, . . . . .	2,184,328 21	38,775 07 <sup>1</sup>		—	—	2,184,328 21
Medfield Hospital, . . . . .	1,839,170 81	30,727 24		—	—	1,839,170 81
Foxborough Hospital, . . . . .	809,853 80	184,376 28		—	—	809,853 80
Gardner Colony, . . . . .	714,503 88	28,191 69		—	—	714,503 88
Totals, . . . . .	\$17,439,321 16	\$496,614 80		\$17,937 96	\$3,860 51 <sup>1</sup>	\$17,457,259 12
Miscellaneous: —						
Monson Hospital, . . . . .	\$1,002,280 52	\$7,106 76		—	—	\$1,002,280 52
School for Feeble-minded at Waltham, . . . . .	1,136,349 59	2,481 59 <sup>1</sup>		\$58,020 67	\$1,437 57	1,194,370 26
Wrentham School, . . . . .	1,132,500 23	46,307 95		—	—	1,132,500 23
Totals, . . . . .	\$3,271,130 31	\$50,933 12		\$58,020 67	\$1,437 57	\$3,329,151 01
Totals, hospitals and miscellaneous, . . . . .	\$20,710,451 50	\$547,547 92		\$75,958 63	\$2,422 94 <sup>1</sup>	\$20,786,410 13

<sup>1</sup> Decrease.

TABLE 4. — *Receipts of State Institutions during the Fiscal Year ending Nov. 30, 1919.*

INSTITUTIONS.	RECEIPTS FOR SUPPORT.				RECEIPTS ON ACCOUNT OF SALES OR REFUNDS.				
	Private.	Reimbursing.	Cities and Towns.	Total Support.	Salaries, Wages and Labor.	Travel, Transportation and Office.	Food.	Clothing and Materials.	Furnishings.
The insane:—									
Worcester Hospital, . . . . .	\$38,131 52	\$24,000 62	—	\$62,132 14	—	\$19 29	\$301 82	\$316 61	\$190 60
Taunton Hospital, . . . . .	19,190 31	16,307 03	—	35,497 34	—	35 31	234 09	738 23	46 98
Northampton Hospital, . . . . .	46,956 44	17,594 93	—	64,551 37	—	55 67	1,044 79	323 12	74 55
Danvers Hospital, . . . . .	45,321 77	31,578 89	—	76,900 66	—	186 97	350 65	129 92	62 08
Westborough Hospital, . . . . .	64,439 96	23,717 33	—	88,157 29	—	23 76	2,077 04	195 61	142 02
Boston Hospital (including Psychopathic Department), . . . . .	23,480 06	27,579 43	—	51,059 49	—	—	824 86	106 13	473 60
Grafton Hospital, . . . . .	2,450 76	13,305 75	—	15,756 51	—	40 60	1,927 11	631 47	11 85
Medfield Hospital, . . . . .	2,058 60	10,195 20	—	12,253 80	—	—	1,111 34	294 78	325 86
Foxborough Hospital, . . . . .	4,027 81	3,252 17	—	7,279 98	—	—	1,304 90	37 55	—
Gardner Colony, . . . . .	896 12	1,072 27	—	1,968 39	—	37	2,536 09	301 26	—
Totals, . . . . .	\$246,953 35	\$168,603 62	—	\$415,556 97	—	\$361 97	\$11,712 69	\$3,074 68	\$1,327 54
Miscellaneous:—									
Monson Hospital, . . . . .	\$7,999 24	\$7,038 22	—	\$15,037 46	—	\$27 43	\$143 87	\$167 48	\$50 52
School for Feeble-minded at Waltham, . . . . .	3,443 05	3,073 60	—	6,516 65	—	114 55	2,653 55	145 47	40
Wrentham School, . . . . .	883 72	482 24	—	1,365 96	—	—	46 52	185 24	7 78
Totals, . . . . .	\$12,326 01	\$10,594 06	—	\$22,920 07	—	\$141 98	\$2,843 94	\$498 19	\$58 70
Totals, hospitals and miscellaneous, . . . . .	\$259,279 36	\$179,197 68	—	\$438,477 04	—	\$503 95	\$14,556 63	\$3,572 87	\$1,386 24
Mental wards, State Infirmary, . . . . .	—	\$1,382 00	—	\$1,382 00	\$35 64	\$33 50	\$9 20	\$319 18	—
Bridgewater Hospital, . . . . .	—	743 00	—	743 00	—	—	304 73	195 03	\$37 37
Totals, . . . . .	—	\$2,125 00	—	\$2,125 00	\$35 64	\$33 50	\$313 93	\$514 21	\$37 37
Aggregates, . . . . .	\$259,279 36	\$181,322 68	—	\$440,602 04	\$35 64	\$537 45	\$14,870 56	\$4,087 08	\$1,423 61



TABLE 4. — Receipts of State Institutions during the Fiscal Year ending Nov. 30, 1919 — Concluded.

INSTITUTIONS.	RECEIPTS ON ACCOUNT OF SALES OR REFUNDS — Con.							Miscella- neous.	Total Institution Receipts.
	Medical and General Care.	Heat, Light and Power.	Farm and Stable.	Grounds.	Repairs, Ordinary.	Repairs and Renewals.	Total Sales or Refunds.		
The insane: —									
Worcester Hospital, . . . . .	\$21 88	—	\$3,741 16	—	\$14 57	—	\$4,605 93	\$1,651 63	\$68,389 70
Taunton Hospital, . . . . .	25 03	—	889 72	—	696 84	—	2,666 20	1,235 60	39,399 14
Northampton Hospital, . . . . .	3 86	\$78 12	3,005 48	—	62 37	—	4,647 96	1,704 95	70,904 28
Danvers Hospital, . . . . .	88 33	64 90	1,049 29	—	—	\$147 73	2,079 87	3,492 36	82,472 89
Westborough Hospital, . . . . .	243 25	10 00	240 94	—	94 70	—	3,027 32	1,256 81	92,441 42
Boston Hospital (including Psychopathic Department), . . . . .	—	76 93	531 42	—	92 40	—	2,105 34	628 77	53,793 60
Grafton Hospital, . . . . .	383 83	712 64	873 74	—	640 93	—	5,222 17	1,789 56	22,768 24
Medfield Hospital, . . . . .	3 80	62 55	1,007 30	—	3 35	—	2,808 98	777 87	15,840 65
Foxborough Hospital, . . . . .	10 10	—	190 77	—	20 49	—	1,563 81	759 35	9,603 14
Gardner Colony, . . . . .	—	—	641 80	—	85 25	—	3,564 77	1,863 40	7,396 56
Totals, . . . . .	\$780 08	\$1,005 14	\$12,171 62	—	\$1,710 90	\$147 73	\$32,292 35	\$15,160 30	\$463,009 62
Miscellaneous: —									
Monson Hospital, . . . . .	\$296 46	—	\$733 49	\$32 37	—	—	\$1,451 62	\$2,387 76	\$18,876 84
School for Feeble-minded at Waltham, Wrentham School, . . . . .	3 25	\$23 10	1,552 05	—	\$15 78	—	4,508 15	507 35	11,532 15
Totals, . . . . .	\$299 71	\$32 62	\$3,170 26	\$102 52	—	—	1,203 93	1,611 54	4,181 43
Totals, hospitals and miscellaneous, . . . . .	\$1,079 79	\$1,037 76	\$15,341 88	\$102 52	\$1,726 68	\$147 73	\$39,456 05	\$4,506 65	\$34,590 42
Mental wards, State Infirmary, . . . . .	\$157 91	\$10 91	\$998 17	—	\$318 92	—	\$1,883 43	\$237 67	\$3,503 10
Bridgewater Hospital, . . . . .	—	291 34	7,288 74	—	116 38	—	8,233 59	564 70	9,541 29
Totals, . . . . .	\$157 91	\$302 25	\$8,286 91	—	\$435 30	—	\$10,117 02	\$802 37	\$13,044 39
Aggregates, . . . . .	\$1,237 70	\$1,340 01	\$23,628 79	\$102 52	\$2,161 98	\$147 73	\$49,573 07	\$20,469 32	\$510,644 43

TABLE 5. — *Expenses of Maintenance, 1919.*

INSTITUTIONS.	Average Number of Patients.	SALARIES AND WAGES.				RELIGIOUS INSTRUCTION.			
		Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1919.	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1919.
The insane: —									
Worcester Hospital, . . . . .	1,591	\$162,824 60	—	\$162,824 60	\$1.9681	\$1,055 00	—	\$1,055 00	\$0.1196
Taunton Hospital, . . . . .	1,344	144,806 73	—	144,806 73	2.0720	2,092 85	—	2,092 85	.0300
Northampton Hospital, . . . . .	989	109,147 66	—	109,147 66	2.1223	1,186 00	—	1,186 00	.0231
Danvers Hospital, . . . . .	1,512	185,596 82	—	185,596 82	2.3606	915 00	—	915 00	.0116
Westborough Hospital, . . . . .	1,313	169,071 22	—	169,071 22	2.4763	1,716 20	—	1,716 20	.0251
Boston Hospital (including Psychopathic Department), . . . . .	1,711	279,644 50	—	279,644 50	3.1431	1,416 00	—	1,416 00	.0159
Boston Hospital (excluding Psychopathic Department), . . . . .	1,625	200,784 14	—	200,784 14	2.3761	1,416 00	—	1,416 00	.0168
Grafton Hospital, . . . . .	1,848	202,863 68	—	202,863 68	2.1110	2,170 63	—	2,170 63	.0226
Medfield Hospital, . . . . .	1,557	177,509 51	—	177,509 51	2.1924	1,503 00	—	1,503 00	.0186
Foxborough Hospital, . . . . .	454	84,774 23	—	84,774 23	3.5909	1,395 00	—	1,395 00	.0591
Gardner Colony, . . . . .	843	106,218 54	—	106,218 54	2.4231	1,261 25	—	1,261 25	.0288
Totals and averages, . . . . .	13,162	\$1,622,457 49	—	\$1,622,457 49	\$2.3705	\$14,710 93	—	\$14,710 93	\$0.0215
Miscellaneous: —									
Monson Hospital, . . . . .	912	\$122,640 35	—	\$122,640 35	\$2.5860	\$1,576 92	—	\$1,576 92	\$0.0333
School for Feeble-minded at Waltham, . . . . .	1,527	165,761 68	—	165,761 68	2.0876	1,955 00	—	1,955 00	.0246
Wrentham School, <sup>1</sup> . . . . .	1,207	107,889 80	—	107,889 80	1.7190	1,322 72	—	1,322 72	.0211
Totals and averages, . . . . .	3,646	\$396,291 83	—	\$396,291 83	\$2.0902	\$4,854 64	—	\$4,854 64	\$0.0256
Totals and averages, hospitals and miscellaneous, . . . . .	16,808	\$2,018,749 32	—	\$2,018,749 32	\$2.3097	\$19,565 57	—	\$19,565 57	\$0.0224
Mental wards, State Infirmary, . . . . .	699	\$69,072 45	\$35 64	\$69,036 81	\$1.8993	\$663 75	—	\$663 75	\$0.0183
Bridgewater Hospital, . . . . .	818	59,534 68	—	59,534 68	1.3996	1,023 14	—	1,023 14	.0240
Totals and averages, . . . . .	1,517	\$128,607 13	\$35 64	\$128,571 49	\$1.6299	\$1,686 89	—	\$1,686 89	\$0.0214
Aggregates, . . . . .	18,325	\$2,147,356 45	\$35 64	\$2,147,320 81	\$2.2535	\$21,252 46	—	\$21,252 46	\$0.0223

<sup>1</sup> Includes School for Feeble-minded at Belchertown.

TABLE 5. — *Expenses of Maintenance, 1919* — Continued.

INSTITUTIONS.	TRAVEL, TRANSPORTATION AND OFFICE EXPENSES.					FOOD.			
	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1919.		Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1919.
The insane: —									
Worcester Hospital,	\$9,912 96	\$19 29	\$9,893 67	\$0. 0127		\$123,786 86	\$301 82	\$123,485 04	\$1.4926
Taunton Hospital,	9,609 73	35 31	9,574 42	.1370		108,358 41	234 09	108,124 32	1.5471
Northampton Hospital,	7,962 86	55 67	7,907 19	.1537		83,916 12	1,044 79	83,916 33	1.6317
Danvers Hospital,	11,294 18	186 97	11,107 21	.1412		94,431 72	350 65	94,081 07	1.1966
Westborough Hospital,	11,906 71	23 76	11,882 95	.1740		106,451 85	2,077 04	104,374 81	1.5287
Boston Hospital (including Psychopathic Department),	17,017 45	—	17,017 45	.1913		189,572 46	824 86	188,747 60	2.1214
Boston Hospital (excluding Psychopathic Department),	12,598 83	—	12,598 83	.1491		158,369 31	666 15	157,703 16	1.8663
Grafton Hospital,	9,782 57	40 60	9,741 97	.1014		165,417 87	1,927 11	163,490 76	1.7013
Medfield Hospital,	11,049 90	—	11,049 90	.1365		133,336 50	1,111 34	132,225 16	1.6331
Foxborough Hospital,	5,645 54	—	5,645 54	.2391		41,089 03	1,304 90	39,784 13	1.6852
Gardner Colony,	6,555 55	37	6,555 18	.1435		53,325 15	2,536 09	50,789 06	1.1586
Totals and averages,	\$100,737 45	\$361 97	\$100,375 48	\$0. 1467		\$1,100,730 97	\$11,712 69	\$1,089,018 28	\$1.5911
Miscellaneous: —									
Monson Hospital,	\$7,071 01	\$27 43	\$7,043 58	\$0. 1485		\$67,221 87	\$143 87	\$67,078 00	\$1.4145
School for Feeble-minded at Waltham,	10,610 76	114 55	10,496 21	.1322		112,767 80	2,653 55	110,114 25	1.3867
Wrentham School, <sup>1</sup>	11,149 45	—	11,149 45	.1776		99,145 23	46 52	99,098 71	1.5789
Totals and averages,	\$28,831 22	\$141 98	\$28,689 24	\$0. 1513		\$279,134 90	\$2,843 94	\$276,290 96	\$1.4573
Totals and averages, hospitals and miscellaneous,	\$129,568 67	\$503 95	\$129,064 72	\$0. 1477		\$1,379,865 87	\$14,556 63	\$1,365,309 24	\$1.5621
Mental wards, State Infirmary,	\$4,139 04	\$33 50	\$4,105 54	\$0. 1130		\$71,569 27	\$9 20	\$71,560 07	\$1.9687
Bridgewater Hospital,	2,842 33	—	2,842 33	.0668		52,470 42	304 73	52,165 69	1.2264
Totals and averages,	\$6,981 37	\$33 50	\$6,947 87	\$0. 0881		\$124,039 69	\$313 93	\$123,725 76	\$1.5681
Aggregates,	\$136,550 04	\$537 45	\$136,012 59	\$0 1427		\$1,503,905 56	\$14,870 56	\$1,489,035 00	\$1.5626

<sup>1</sup> Includes School for Feeble-minded at Belchertown.

TABLE 5. — *Expenses of Maintenance, 1919* — Continued.

INSTITUTIONS.	CLOTHING AND CLOTHING MATERIALS.				FURNISHINGS AND HOUSEHOLD SUPPLIES.			
	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1919.	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1919.
The insane: —								
Worcester Hospital, . . . . .	\$14,455 01	\$316 61	\$14,138 40	\$0. 1709	\$26,290 39	\$190 60	\$26,099 79	\$0. 3155
Taunton Hospital, . . . . .	22,895 10	738 23	22,156 87	.3170	28,685 88	46 98	28,638 90	.4098
Northampton Hospital, . . . . .	7,270 22	323 12	6,947 10	.1351	15,101 57	74 55	15,027 02	.2922
Danvers Hospital, . . . . .	16,804 89	129 92	16,674 97	.2121	29,288 07	62 08	29,225 99	.3717
Westborough Hospital, . . . . .	20,519 45	195 61	20,323 84	.2977	31,191 93	142 02	31,049 91	.4548
Boston Hospital (including Psychopathic Department), . . . . .	26,165 21	106 13	26,059 08	.2929	48,588 40	473 60	48,114 80	.5408
Boston Hospital (excluding Psychopathic Department), . . . . .	24,854 78	100 23	24,754 55	.2930	42,990 96	461 78	42,529 18	.5033
Grafton Hospital, . . . . .	38,174 50	631 47	37,543 03	.3907	49,585 79	11 85	49,573 94	.5159
Medfield Hospital, . . . . .	29,272 39	294 78	28,977 61	.3579	35,509 29	325 86	35,183 43	.4346
Foxborough Hospital, . . . . .	7,992 83	37 55	7,955 28	.3370	15,658 56	—	15,658 56	.6633
Gardner Colony, . . . . .	13,468 68	301 26	13,167 42	.3004	15,565 76	—	15,565 76	.3551
Totals and averages, . . . . .	\$197,018 28	\$3,074 68	\$193,943 60	\$0. 2834	\$295,465 64	\$1,327 54	\$294,138 10	\$0. 4298
Miscellaneous: —								
Monson Hospital, . . . . .	\$8,994 91	\$167 48	\$8,827 43	\$0. 1861	\$17,037 92	\$50 52	\$16,987 40	\$0. 3532
School for Feeble-minded at Waltham, . . . . .	30,278 45	145 47	30,132 98	.3795	29,884 58	40	29,844 18	.3704
Wrentham School, <sup>1</sup> . . . . .	24,255 17	185 24	24,069 93	.3835	22,092 24	7 78	22,084 46	.3519
Totals and averages, . . . . .	\$63,528 53	\$498 19	\$63,030 34	\$0. 3325	\$69,014 74	\$58 70	\$68,956 04	\$0. 3637
Totals and averages, hospitals and miscellaneous, . . . . .	\$260,546 81	\$3,572 87	\$256,973 94	\$0. 2940	\$364,480 38	\$1,386 24	\$363,094 14	\$0. 4154
Mental wards, State Infirmary, . . . . .	\$13,494 21	\$319 18	\$13,175 03	\$0. 3625	\$12,876 66	—	\$12,876 66	\$0. 3543
Bridgewater Hospital, . . . . .	16,892 94	195 03	16,697 91	.3926	8,011 89	\$37 37	7,974 52	.1875
Totals and averages, . . . . .	\$30,387 15	\$514 21	\$29,872 94	\$0. 3787	\$20,888 55	\$37 37	\$20,851 18	\$0. 2643
Aggregates, . . . . .	\$290,933 96	\$4,087 08	\$286,846 88	\$0. 3010	\$385,368 93	\$1,423 61	\$383,945 32	\$0. 4029

<sup>1</sup> Includes School for Feeble-minded at Belchertown.



TABLE 5. — *Expenses of Maintenance, 1919* — Continued.

INSTITUTIONS.	MEDICAL AND GENERAL CARE.				HEAT, LIGHT AND POWER.			
	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1919.	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita Cost, 1919.
The insane:—								
Worcester Hospital,	\$20,186 02	\$21 88	\$20,164 14	\$0 2437	\$53,601 52	—	\$53,601 52	\$0 6479
Taunton Hospital,	21,304 56	25 03	21,279 53	.3045	31,473 91	\$78 12	31,473 91	.4504
Northampton Hospital,	10,217 38	3 86	10,213 52	.1986	21,446 38	24,128 10	21,368 26	.4155
Danvers Hospital,	24,698 53	88 33	24,610 20	.3130	24,193 00	64 90	24,128 10	.3069
Westborough Hospital,	18,545 62	243 25	18,302 37	.2681	52,669 06	10 00	52,659 06	.7712
Boston Hospital (including Psychopathic Department),	22,823 51	—	22,823 51	.2565	34,984 47	76 93	34,907 54	.3924
Boston Hospital (excluding Psychopathic Department),	18,689 75	—	18,689 75	.2212	26,242 45	75 93	26,166 52	.3097
Grafton Hospital,	15,101 73	383 83	14,717 90	.1532	38,783 93	712 64	38,071 29	.3962
Medfield Hospital,	16,631 63	3 80	16,627 83	.2054	34,759 40	62 55	34,696 85	.4285
Foxborough Hospital,	10,751 92	10 10	10,741 82	.4550	9,060 67	—	9,060 67	.3838
Gardner Colony,	10,710 51	—	10,710 51	.2443	18,861 33	—	18,861 33	.4303
Totals and averages,	\$170,971 41	\$780 08	\$170,191 33	\$0 2487	\$319,833 67	\$1,005 14	\$318,828 53	\$0 4658
Miscellaneous:—								
Monson Hospital,	\$8,158 14	\$296 46	\$7,861 68	\$0 1658	\$32,694 80	—	\$32,694 80	\$0 6894
School for Feeble-minded at Waltham,	14,631 31	3 25	14,628 06	.1842	35,268 59	\$23 10	35,245 49	.4439
Wrentham School, <sup>1</sup>	7,386 19	—	7,386 19	.1177	15,341 76	9 52	15,332 24	.2443
Totals and averages,	\$30,175 64	\$299 71	\$29,875 93	\$0 1576	\$83,305 15	\$32 62	\$83,272 53	\$0 4392
Totals and averages, hospitals and miscellaneous,	\$201,147 05	\$1,079 79	\$200,067 26	\$0 2289	\$403,138 82	\$1,037 76	\$402,101 06	\$0 4601
Montal wards, State Infirmary,	\$9,627 56	\$157 91	\$9,469 65	\$0 2605	\$17,953 70	\$10 91	\$17,942 79	\$0 4936
Bridgewater Hospital,	8,893 21	—	8,893 21	.2091	21,840 85	291 34	21,549 51	.5066
Totals and averages,	\$18,520 77	\$157 91	\$18,362 86	\$0 2328	\$39,794 55	\$302 25	\$39,492 30	\$0 5006
Aggregates,	\$219,667 82	\$1,237 70	\$218,430 12	\$0 2292	\$442,933 37	\$1,340 01	\$441,593 36	\$0 4634

<sup>1</sup> Includes School for Feeble-minded at Pelebertown.

TABLE 5. — *Expenses of Maintenance, 1919* — Continued.

INSTITUTIONS.	HEAT, LIGHT AND POWER — CON.						TOTAL CONSUMPTION.	
	STEAMING COAL.			COAL FOR DOMESTIC PURPOSES.			WEEKLY PER CAPITA.	
	SEMI-BITUMINOUS.		BUCKWHEAT AND SCREENINGS.	ANTHRACITE.		Average Price.	Quantity, Long Tons.	Cost, 1919.
	Quantity, Long Tons.	Average Price.		Quantity, Long Tons.	Average Price.			
The insane: —								
Worcester Hospital, . . . . .	6,196	\$7 67	—	416	\$12 05		.0799	\$0.6347
Taunton Hospital, . . . . .	2,422	8 20	—	827	11 31		.0464	.4179
Northampton Hospital, . . . . .	2,597	7 07	—	228	10 76		.0549	.4049
Danvers Hospital, . . . . .	2,452	7 21	—	197	10 68		.0337	.2515
Westborough Hospital, . . . . .	4,202	11 03	—	349	9 62		.0667	.7282
Boston Hospital (including Psychopathic Department), . . . . .	3,728	8 14	—	217	12 05		.0443	.3703
Boston Hospital (excluding Psychopathic Department), . . . . .	—	—	—	—	—		—	—
Grafton Hospital, . . . . .	1,190	6 87	\$4 44	428	7 28		.0784	.3906
Medfield Hospital, . . . . .	3,929	7 60	—	365	9 72		.0530	.4127
Foxborough Hospital, . . . . .	927	6 66	—	165	10 53		.0463	.3352
Gardner Colony, . . . . .	1,637	6 51	4 40	217	8 88		.1034	.6429
Totals and averages, . . . . .	29,280	\$8 02	\$4 43	3,409	\$10 33		.0573	\$0.4369
Miscellaneous: —								
Monson Hospital, . . . . .	3,081	\$6 84	—	801	\$9 98		.0819	\$0.6130
School for Feeble-minded at Waltham, . . . . .	2,350	10 38	\$4 45	641	12 30		.0440	.4347
Wrentham School, <sup>1</sup> . . . . .	1,721	7 49	—	205	11 10		.0307	.2417
Totals and averages, . . . . .	7,152	\$8 16	\$4 45	1,647	\$11 02		.0491	\$0.4154
Totals and averages, hospitals and miscellaneous, . . . . .	36,432	\$8 05	\$4 44	5,056	\$10 56		.0555	\$0.4322
Mental wards, State Infirmary, . . . . .	—	—	—	—	—		—	—
Bridgewater Hospital, . . . . .	—	—	—	—	—		—	—
Totals and averages, . . . . .	—	—	—	—	—		—	—
Aggregates, . . . . .	36,432	\$8 05	\$4 44	5,056	\$10 56		.0555	\$0.4322

<sup>1</sup> Includes School for Feeble-minded at Belchertown.

TABLE 5. — *Expenses of Maintenance, 1919* — Continued.

INSTITUTIONS.	FARM AND STABLE.				GROUNDS.			
	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita Cost, 1919.	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita Cost, 1919.
The insane: —								
Worcester Hospital, . . . . .	\$36,644 74	\$3,741 16	\$32,903 58	\$0.3977	\$261 63	—	\$261 63	\$0.0032
Taunton Hospital, . . . . .	35,982 16	889 72	35,092 44	.5051	2,636 27	—	2,636 27	.0377
Northampton Hospital, . . . . .	28,359 79	3,005 48	25,354 31	.4930	483 51	—	483 51	.0094
Danvers Hospital, . . . . .	22,937 74	1,049 29	21,888 45	.2784	1,047 90	—	1,047 90	.0133
Westborough Hospital, . . . . .	29,146 28	240 94	28,905 34	.4234	332 93	—	332 93	.0049
Boston Hospital (including Psychopathic Department), . . . . .	11,973 42	531 42	11,442 00	.1286	1,145 90	—	1,145 90	.0129
Boston Hospital (excluding Psychopathic Department), . . . . .	11,973 42	531 42	11,442 00	.1354	865 90	—	865 90	.0102
Grafton Hospital, . . . . .	30,875 23	873 74	30,001 49	.3122	46 81	—	46 81	.0005
Medford Hospital, . . . . .	40,202 39	1,007 30	39,195 09	.4841	466 54	—	466 54	.0058
Foxborough Hospital, . . . . .	12,131 96	190 77	11,941 19	.5058	1,137 89	—	1,137 89	.0482
Gardner Colony, . . . . .	28,974 22	641 80	28,332 42	.6463	727 03	—	727 03	.0166
Totals and averages, . . . . .	\$277,227 93	\$12,171 62	\$265,056 31	\$0.3873	\$8,286 41	—	\$8,286 41	\$0.0121
Miscellaneous: —								
Monson Hospital, . . . . .	\$23,165 01	\$733 49	\$22,431 52	\$0.4730	\$87 73	\$32 37	\$55 36	\$0.0012
School for Feeble-minded at Waltham, . . . . .	56,825 36	1,552 05	55,273 31	.6961	317 50	—	317 50	.0040
Wrentham School, . . . . .	38,024 91	884 72	37,140 19	.5917	381 74	70 15	311 59	.0049
Totals and averages, . . . . .	\$118,015 28	\$3,170 26	\$114,845 02	\$0.6038	\$786 97	\$102 52	\$684 45	\$0.0036
Totals and averages, hospitals and miscellaneous, . . . . .	\$395,243 21	\$15,341 88	\$379,901 33	\$0.4347	\$9,073 38	\$102 52	\$8,970 86	\$0.0103
Mental wards, State Infirmary, . . . . .	\$11,099 04	\$998 17	\$10,100 87	\$0.2779	\$553 61	—	\$553 61	\$0.0152
Bridgewater Hospital, . . . . .	20,010 74	7,288 74	12,722 00	.2991	147 81	—	147 81	.0035
Totals and averages, . . . . .	\$31,109 78	\$8,286 91	\$22,822 87	\$0.2893	\$701 42	—	\$701 42	\$0.0089
Aggregates, . . . . .	\$426,352 99	\$23,628 79	\$402,724 20	\$0.4227	\$9,774 80	\$102 52	\$9,672 28	\$0.0102

<sup>1</sup> Includes School for Feeble-minded at Belchertown.

TABLE 5. — *Expenses of Maintenance, 1919* — Continued.

INSTITUTIONS.	REPAIRS, ORDINARY.				REPAIRS AND RENEWALS.			
	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita Cost, 1919.	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita Cost, 1919.
The insane: —								
Worcester Hospital,	\$19,494 49	\$14 57	\$19,479 92	\$0 2354	\$4,629 50	—	\$4,629 50	\$0.0560
Taunton Hospital,	10,503 87	696 84	9,807 03	.1403	27,151 50	—	27,151 50	.3885
Northampton Hospital,	15,348 92	62 37	15,286 55	.2973	7,130 18	—	7,130 18	.1386
Danvers Hospital,	20,179 79	—	20,179 79	.2367	2,443 88	\$147 73	2,296 15	.0292
Westborough Hospital,	12,007 57	94 70	11,912 87	.1745	13,306 48	—	13,306 48	.1949
Boston Hospital (including Psychopathic Department),	19,928 60	92 40	19,836 20	.2229	15,837 64	—	15,837 64	.1780
Boston Hospital (excluding Psychopathic Department),	13,755 22	92 40	13,662 82	.1617	15,390 15	—	15,390 15	.1821
Grafton Hospital,	17,524 31	640 93	16,883 38	.1757	22,941 78	—	22,941 78	.2387
Medfield Hospital,	24,470 41	3 35	24,467 06	.3022	42,917 85	—	42,917 85	.5301
Foxborough Hospital,	6,882 40	20 49	6,861 91	.2907	2,111 67	—	2,111 67	.0894
Gardner Colony,	16,093 10	85 25	16,007 85	.3652	13,311 30	—	13,311 30	.3036
Totals and averages,	\$162,433 46	\$1,710 90	\$160,722 56	\$0 2348	\$151,781 78	\$147 73	\$151,634 05	\$0.2215
Miscellaneous: —								
Monson Hospital,	\$12,245 64	—	\$12,245 64	\$0 2582	\$4,273 25	—	\$4,273 25	\$0.0901
School for Feeble-minded at Waltham,	18,183 33	\$15 78	18,167 55	.2288	4,692 95	—	4,692 95	.0391
Wrentham School, <sup>1</sup>	15,942 49	—	15,942 49	.2540	6,036 10	—	6,036 10	.0962
Totals and averages,	\$46,371 46	\$15 78	\$46,355 68	\$0 2445	\$15,002 30	—	\$15,002 30	\$0.0791
Totals and averages, hospitals and miscellaneous,	\$208,804 92	\$1,726 68	\$207,078 24	\$0 2369	\$166,784 08	\$147 73	\$166,636 35	\$0.1906
Mental wards, State Infirmary,	\$10,250 03	\$318 92	\$9,931 11	\$0 2732	\$2,818 49	—	\$2,818 49	\$0.0776
Bridgewater Hospital,	5,361 26	116 38	5,244 88	.1233	4,910 59	—	4,910 59	.1154
Totals and averages,	\$15,611 29	\$435 30	\$15,175 99	\$0 1924	\$7,729 08	—	\$7,729 08	\$0.0980
Aggregates,	\$224,416 21	\$2,161 98	\$222,254 23	\$0 2332	\$174,513 16	\$147 73	\$174,365 43	\$0.1850

<sup>1</sup> Includes School for Feeble-minded at Belchertown.



TABLE 5. — *Expenses of Maintenance, 1919 — Continued.*

INSTITUTIONS.	TOTAL MAINTENANCE EXPENSES.				
	Gross Expenses.	GROSS WEEKLY PER CAPITA.		Receipts from Sales or Refunds.	Net Expenses.
		1919.	Three Years' Average.		
The insane: —					
Worcester Hospital, . . . . .	\$473,142 72	\$5,7190	\$5,3319	\$4,605 93	\$468,536 79
Taunton Hospital, . . . . .	445,500 97	6,3745	5,6431	2,666 20	442,834 77
Northampton Hospital, . . . . .	308,615 59	6,0009	5,1425	4,617 96	303,967 63
Danvers Hospital, . . . . .	433,831 52	5,5165	5,8209	2,079 87	431,751 65
Westborough Hospital, . . . . .	466,865 30	6,8379	6,2455	3,027 32	463,837 98
Boston Hospital (including Psychopathic Department), . . . . .	669,097 56	7,5203	7,2747	2,105 34	666,992 22
Boston Hospital (excluding Psychopathic Department), . . . . .	527,930 91	6,2477	6,1295	1,927 91	526,003 00
Grafton Hospital, . . . . .	593,268 83	6,1737	5,5099	5,222 17	588,046 66
Medfield Hospital, . . . . .	547,628 81	6,7638	5,4931	2,808 98	544,819 83
Foxborough Hospital, . . . . .	198,631 70	8,4137	8,5802	1,563 81	197,067 89
Gardner Colony, . . . . .	285,072 42	6,5032	5,2051	3,564 77	281,507 65
Totals and averages, . . . . .	\$4,421,655 42	\$6,4604	\$5,8685	\$32,292 35	\$4,389,363 07
Miscellaneous: —					
Monson Hospital, . . . . .	\$305,167 55	\$6,4349	\$5,3084	\$1,451 62	\$303,715 93
School for Feeble-minded at Waltham, . . . . .	481,177 31	6,0599	4,6877	4,508 15	476,669 16
Wrentham School, <sup>1</sup> . . . . .	348,967 80	5,5600	4,6392	1,203 93	347,763 87
Totals and averages, . . . . .	\$1,135,312 66	\$5,9882	\$4,8480	\$7,163 70	\$1,128,148 96
Totals and averages, hospitals and miscellaneous, . . . . .	\$5,556,968 08	\$6,3598	\$5,6298	\$39,456 05	\$5,517,512 03
Mental wards, State Infirmary, . . . . .	\$224,117 81	\$6,1659	—	\$1,883 43	\$222,234 38
Bridgewater Hospital, . . . . .	201,939 86	4,7475	—	8,233 59	193,706 27
Totals and averages, . . . . .	\$426,057 67	\$5,4011	—	\$10,117 02	\$415,940 65
Aggregates, . . . . .	\$5,983,025 75	\$6,2787	—	\$49,573 07	\$5,933,452 68

<sup>1</sup> Includes School for Feeble-minded at Belchertown.

TABLE 5. — *Expenses of Maintenance, 1919 — Concluded.*

INSTITUTIONS.	MAINTENANCE APPROPRIATIONS.				
	Amount appropriated by Legislature.	Balance from Previous Year.	Total Appropriation.	Deficiencies.	Balance reverting to State Treasurer.
The insane: —					
Worcester Hospital, . . . . .	\$538,500 00	\$665 00	\$539,165 00	—	\$66,022 28
Taunton Hospital, . . . . .	473,900 00	57 60	473,957 60	—	28,456 63
Northampton Hospital, . . . . .	343,500 00	808 82	344,308 82	—	35,693 23
Danvers Hospital, . . . . .	476,400 00	2,115 33	478,515 33	—	44,683 81
Westborough Hospital, . . . . .	468,500 00	23,936 82	492,436 82	—	25,371 52
Boston Hospital (including Psychopathic Department), . . . . .	686,700 00	1,886 75	688,586 75	—	19,489 19
Boston Hospital (excluding Psychopathic Department), . . . . .	—	—	—	—	—
Grafton Hospital, . . . . .	674,700 00	5,073 79	679,773 79	—	86,504 96
Medfield Hospital, . . . . .	568,800 00	2,652 74	571,452 74	—	25,823 93
Foxborough Hospital, . . . . .	204,900 00	29 20	204,929 20	—	6,297 50
Gardner Colony, . . . . .	308,600 00	1,023 80	309,623 80	—	24,551 38
Totals and averages, . . . . .	\$4,744,500 00	\$38,249 85	\$4,782,749 85	—	\$361,094 43
Miscellaneous: —					
Monson Hospital, . . . . .	\$361,300 00	\$4,273 79	\$365,573 79	—	\$60,406 24
School for Feeble-minded at Waltham, . . . . .	526,227 00	278 39	526,505 39	—	45,328 08
Wrentham School, <sup>1</sup> . . . . .	383,500 00	5,557 29	389,057 29	—	40,089 49
Totals and averages, . . . . .	\$1,271,027 00	\$10,109 47	\$1,281,136 47	—	\$145,823 81
Totals and averages, hospitals and miscellaneous, . . . . .	\$6,015,527 00	\$48,359 32	\$6,063,886 32	—	\$506,918 24
Mental wards, State Infirmary, . . . . .	\$224,838 08	\$183 90	\$225,021 98	—	\$804 17
Bridgewater Hospital, . . . . .	224,707 00	5 12	224,712 12	—	22,772 26
Totals and averages, . . . . .	\$449,545 08	\$189 02	\$449,734 10	—	\$23,676 43
Aggregates, . . . . .	\$6,465,072 08	\$48,548 34	\$6,513,620 42	—	\$530,594 67

<sup>1</sup> Includes School for Feeble-minded at Belchertown.

TABLE 6. — *Whole Weekly Per Capita Cost of Support of a Patient in the Institutions for the Insane, Feeble-minded and Epileptic for the Fiscal Year ending Nov. 30, 1919.*

INSTITUTIONS.	WEEKLY PER CAPITA COST.								
	Average Number of Patients, 1919.	Total Real and Personal Property.	Per Capita Valuation.	Interest 3.54 Per Cent.	Deprecia- tion.	Maintenance, exclusive of Repairs and Im- provements.	Gross Cost.	Receipts.	Net Cost.
The insane:—									
Worcester Hospital, . . . . .	1,591	\$2,173,848 87	\$1,366 34	\$0 93	\$0 72	\$5 27	\$6 92	\$0 83	\$6 09
Taunton Hospital, . . . . .	1,344	983,127 37	731 49	50	73	5 64	6 87	56	6 31
Northampton Hospital, . . . . .	989	1,197,906 13	1,211 23	82	63	5 37	6 82	1 38	5 44
Danvers Hospital, . . . . .	1,512	\$2,595,558 97	1,716 64	1 17	68	4 93	6 78	1 05	5 73
Westborough Hospital, . . . . .	1,313	1,466,440 57	1,116 86	76	1 00	6 29	8 05	1 35	6 70
Boston Hospital (including Psychopathic De- partment), . . . . .	1,711	3,474,582 55	2,030 73	1 38	56	6 96	8 90	60	8 30
Grafton Hospital, . . . . .	1,848	2,184,328 21	1,182 00	80	62	5 57	6 99	24	6 75
Medfield Hospital, . . . . .	1,557	1,839,170 81	1,181 23	80	1 11	5 76	7 67	20	7 47
Foxborough Hospital, . . . . .	454	809,853 80	1,783 82	1 21	1 03	7 47	9 71	41	9 30
Gardner Colony, . . . . .	843	714,503 88	847 57	58	98	5 60	7 16	17	6 99
Totals and averages, . . . . .	13,162	\$17,439,321 16	\$1,324 98	\$0 90	\$0 77	\$5 73	\$7 40	\$0 63	\$6 72
Miscellaneous:—									
Monson Hospital, . . . . .	912	\$1,002,280 52	\$1,098 99	\$0 75	\$0 46	\$5 98	\$7 19	\$0 40	\$6 79
School for Feeble-minded at Waltham, . . . . .	1,527	1,136,349 59	744 17	51	50	5 56	6 57	15	6 42
Wrentham School, . . . . .	1,207	1,132,500 23	938 28	64	47	5 09	6 20	07	6 13
Totals and averages, . . . . .	3,646	\$3,271,130 34	\$897 18	\$0 61	\$0 48	\$5 51	\$6 60	\$0 18	\$6 42
Totals and averages, hospitals and miscella- neous, . . . . .	16,808	\$20,710,451 50	\$1,232 18	\$0 84	\$0 71	\$5 68	\$7 23	\$0 57	\$6 66

TABLE 7. — Receipts and Expenses on Account of Institutions for the Insane, Feeble-minded and Epileptic, for the Fiscal Year ending Nov. 30, 1919.

	EXPENSES.				Total Receipts.	Net Expenses.
	Increase- ing Value of Plant.	Which counterbalance Depreciation.	Maintenance, exclusive of Repairs and Im- provements.	Total Expenses.		
Department of Mental Diseases: —						
Office, traveling and contingent expenses, salaries and printing						
annual report, . . . . .	-	-	\$77,473 74	\$77,473 74	\$1,585 95	\$75,887 79
Transportation and deportation of patients, . . . . .	-	-	4,856 50	4,856 50	206 19	4,650 31
Investigation of mental diseases and defects, . . . . .	-	-	5,443 18	5,443 18	586 83	4,856 35
Totals, . . . . .	-	-	\$87,773 42	\$87,773 42	\$2,378 97	\$85,394 45
The insane: —						
Worcester Hospital, . . . . .	\$3,349 24	\$59,249 71	\$435,763 35	\$498,362 30	\$8,389 70	\$429,972 60
Taunton Hospital, . . . . .	12,177 43	51,336 80	394,164 17	457,678 40	39,399 14	418,279 26
Northampton Hospital, . . . . .	88,743 60	32,290 83	276,324 76	397,359 19	70,904 28	326,454 91
Danvers Hospital, . . . . .	19,994 55	53,088 27	387,419 54	460,502 36	82,472 89	378,029 47
Westborough Hospital, . . . . .	28,045 51	68,119 56	429,739 38	525,901 45	92,441 42	433,463 03
Boston Hospital (including Psychopathic Department), . . . . .	225,244 99	49,575 15	619,522 41	894,342 55	53,793 60	840,548 95
Grafton Hospital, . . . . .	31,454 82	59,249 20	534,842 01	625,546 03	22,768 24	602,777 79
Medfield Hospital, . . . . .	10,474 66	89,663 88	466,687 50	566,826 04	15,840 65	550,985 39
Foxborough Hospital, . . . . .	164,129 82	24,430 80	176,290 66	364,851 28	9,603 14	355,248 14
Gardner Colony, . . . . .	7,625 06	43,137 72	245,280 34	296,043 12	7,396 56	288,646 56
Totals, . . . . .	\$591,239 68	\$530,141 92	\$3,966,034 12	\$5,087,415 72	\$463,009 62	\$4,624,406 10



Miscellaneous:							\$14,902	\$209,215	\$224,117	\$3,503		\$220,614
Mental wards, Statio Infirmary,	-	.	.	.	.	.	43	38	81	10		71
Bridgewater Hospital (insane),	-	.	.	.	.	.	13,183	51	201,939	9,541		57
Monson Hospital (insane),	-	.	.	.	.	.	6,040	71	84,657	5,236		56
Totals,	-	.	.	.	.	.	\$34,126	60	\$510,714	18,281		84
Totals, institutions for the insane,	\$591,239	68	.	.	.	.	\$564,268	22	\$5,598,130	\$481,290	68	\$5,116,839
Family care,	-	.	.	.	.	.	-		6,902	42	41	67
Totals for the insane,	\$591,239	68	.	.	.	.	\$564,268	22	\$5,605,033	\$481,332	35	\$5,123,700
Feeble-minded:—												
School for Feeble-minded at Waltham,	\$2,440	46	.	.	.	.	\$39,498	05	\$483,617	\$11,532	15	\$472,085
Wrentham School,	37,215	37	.	.	.	.	29,713	94	386,183	4,181	43	382,001
School for Feeble-minded at Belchertown, <sup>1</sup>	122,890	92	.	.	.	.	- <sub>1</sub>	- <sub>1</sub>	122,890	122,890	92	122,890
Totals for the feeble-minded,	\$162,546	75	.	.	.	.	\$69,211	99	\$992,691	\$15,713	58	\$976,978
Epileptic:—												
Monson Hospital (same),	-	.	.	.	.	.	\$15,733	99	\$220,510	\$13,640	17	\$206,870
Hospital Cottages for Children,	-	.	.	.	.	.	-		10,655	-		20
Totals for epileptics,	-	.	.	.	.	.	\$15,733	99	\$231,165	\$13,640	17	\$217,525
Aggregates,	\$753,786	43	.	.	.	.	\$649,214	20	\$6,916,663	\$513,065	07	\$6,403,598

<sup>1</sup> Included in Wrentham.

TABLE 8. — *General Statement as to Special Appropriations, 1919.*

INSTITUTIONS.		EXPENDED DURING FISCAL YEAR ENDING Nov. 30, 1919.					
		Balances brought forward from Previous Years.	New Appropriations.	Total of Live Appropriations.	MISCELLANEOUS.		
					Land.	Adding to Original Value.	Repairs and Renewals.
The insane:—							
Worcester Hospital,	.	\$15,353 94	\$26,000 00	\$41,353 94	—	\$3,349 24	\$21,870 34
Taunton Hospital,	.	25,985 00	—	25,985 00	—	12,177 43	—
Northampton Hospital,	.	99,960 51	—	99,960 51	\$3,031 15	85,712 45	—
Danvers Hospital,	.	34,869 62	—	34,869 62	—	19,994 55	6,676 29
Westborough Hospital,	.	65,392 21	—	65,392 21	—	28,045 51	30,993 64
Boston Hospital (including Psychopathic Department),	.	343,810 63	290,000 00	633,810 63	—	225,244 99	—
Grafton Hospital,	.	143,482 78	9,411 50	152,894 28	—	31,454 82	822 38
Medfield Hospital,	.	28,288 63	—	28,288 63	627 06	9,847 60	8,722 57
Foxborough Hospital,	.	209,030 40	61,541 72	270,572 12	26,075 75	138,054 07	2,089 26
Gardner Colony,	.	3,473 52	57,574 00	61,047 52	—	7,625 06	3,345 64
Metropolitan Hospital,	.	49 16	—	49 16	—	—	—
Totals,	.	\$969,696 40	\$444,527 22	\$1,414,223 62	\$29,733 96	\$561,505 72	\$74,520 12
Miscellaneous:—							
Monson Hospital,	.	—	—	—	—	—	—
School for Feeble-minded at Waltham,	.	\$27,774 46	—	\$27,774 46	—	\$2,440 46	—
Wrentham School,	.	32,794 32	\$8,000 00	40,794 32	\$7,791 28	29,424 09	—
School for Feeble-minded at Belchertown,	.	297,144 70	350,000 00	647,144 70	—	122,890 92	—
Totals,	.	\$357,713 48	\$358,000 00	\$715,713 48	\$7,791 28	\$154,755 47	—
Totals, hospitals and miscellaneous,	.	\$1,327,409 88	\$892,527 22	\$2,129,937 10	\$37,525 24	\$716,261 19	\$74,520 12
Norfolk, <sup>1</sup>	.	—	\$500 00	—	—	—	—

<sup>1</sup> Leased to United States government.

TABLE 8. — *General Statement as to Special Appropriations, 1919 — Concluded.*

INSTITUTIONS.	EXPENDED DURING FISCAL YEAR ENDING Nov. 30, 1919 — Con.				Total Expenditures to Date.	Balance at End of Current Fiscal Year.	Reverted Balances.
	TOTAL EXPENDITURES.						
	Adding to Original Value.	Repairs and Renewals.	Total Expenditures during Fiscal Year.				
The insane: —							
Worcester Hospital, . . . . .	\$3,349 24	\$21,870 34	\$25,219 58	\$55,750 64	\$16,107 96	\$26 40	
Taunton Hospital, . . . . .	12,177 43	—	12,177 43	12,177 43	13,807 57	—	
Northampton Hospital, . . . . .	88,743 60	—	88,743 60	105,843 09	11,214 12	2 79	
Danvers Hospital, . . . . .	19,994 55	6,676 29	26,670 84	125,301 22	8,198 78	—	
Westborough Hospital, . . . . .	28,045 51	30,993 64	59,039 15	79,124 38	6,353 06	—	
Boston Hospital (including Psychopathic Department), . . . . .	225,244 99	—	225,244 99	521,619 36	408,536 73	28 91	
Grafton Hospital, . . . . .	31,454 82	822 38	32,277 20	158,272 42	120,274 11	342 97	
Medfield Hospital, . . . . .	10,474 66	8,722 57	19,197 23	35,158 60	9,091 40	—	
Foxborough Hospital, . . . . .	164,129 82	2,089 26	166,219 08	356,274 98	104,351 29	1 75	
Gardner Colony, . . . . .	7,625 06	3,345 64	10,970 70	12,997 18	50,076 82	—	
Metropolitan Hospital, . . . . .	—	—	—	44,701 52	—	49 16	
Totals, . . . . .	\$591,239 68	\$74,520 12	\$665,759 80	\$1,507,220 82	\$748,011 84	\$451 98	
Miscellaneous: —							
Monson Hospital, . . . . .	—	—	—	—	—	—	
School for Feeble-minded at Waltham, . . . . .	\$2,440 46	—	\$2,440 46	\$27,866 00	\$25,334 00	\$53 80	
Wrentham School, . . . . .	37,215 37	—	37,215 37	149,791 75	3,525 15	172 15	
School for Feeble-minded at Belchertown, . . . . .	122,890 92	—	122,890 92	182,774 88	524,081 63	—	
Totals, . . . . .	\$162,546 75	—	\$162,546 75	\$360,432 63	\$552,940 78	\$225 95	
Totals, hospitals and miscellaneous, . . . . .	\$753,786 43	\$74,520 12	\$828,306 55	\$1,867,653 45	\$1,300,952 62	\$677 93	
Norfolk, <sup>1</sup> . . . . .	—	—	—	\$60,738 56	\$2,761 44	—	

<sup>1</sup> Leased to United States government.

TABLE 9. — *Comparative Analysis of Pay Roll, by Departments.*

INSTITUTIONS.	MEDICAL SERVICE.				ADMINISTRATION.			
	Full Roster.	Average Number of Persons.	Average Monthly Compensation.	Average Weekly Per Capita Cost.	Full Roster.	Average Number of Persons.	Average Monthly Compensation.	Average Weekly Per Capita Cost.
The insane: —								
Worcester Hospital, . . . . .	10	7.18	\$122 63	\$0.1277	22	22.45	\$60 23	\$0.1961
Taunton Hospital, . . . . .	9	14.37	94 69	.2336	17	9.77	59 82	.1003
Northampton Hospital, . . . . .	9	5.83	165 36	.2249	11	9.16	60 08	.1284
Danvers Hospital, . . . . .	10	5.61	166 34	.1424	19	18.15	56 19	.1557
Westborough Hospital, . . . . .	9	5.90	163 27	.1693	21	19.64	51 86	.1790
Boston Hospital (including Psychopathic Department), . . . . .	23	18.88	147 24	.3749	50	50.87	60 19	.4130
Grafton Hospital, . . . . .	10	6.95	134 56	.1168	18	16.78	62 29	.1306
Medfield Hospital, . . . . .	8	6.94	152 23	.1566	14	12.11	56 16	.1008
Foxborough Hospital, . . . . .	6	3.90	150 85	.3139	13	11.17	51 74	.2938
Gardner Colony, . . . . .	5	4.83	151 24	.2000	11	9.40	56 52	.1454
Totals and averages, . . . . .	99	80.39	\$139 59	\$0.1968	196	179.50	\$58 06	\$0.1827
Miscellaneous: —								
Monson Hospital, . . . . .	9	6.20	\$152 32	\$0.2390	17	13.28	\$66 72	\$0.2342
School for Feeble-minded at Waltham, . . . . .	7	6.24	188 99	.1782	19	14.43	54 22	.1183
Wrentham School, . . . . .	7	4.41	200 68	.1692	13	12.02	57 70	.1326
Totals and averages, . . . . .	23	16.85	\$178 56	\$0.1904	49	39.73	\$59 45	\$0.1495
Totals and averages, hospitals and miscellaneous, . . . . .	122	97.24	\$146 34	\$0.1954	245	219.23	\$58 31	\$0.1755



TABLE 9. — Comparative Analysis of Pay Roll, by Departments — Continued.

INSTITUTIONS.	KITCHEN AND DINING-ROOM SERVICE.				DOMESTIC SERVICE.			
	Full Roster.	Average Number of Persons.	Average Monthly Compensation.	Average Weekly Per Capita Cost.	Full Roster.	Average Number of Persons.	Average Monthly Compensation.	Average Weekly Per Capita Cost.
The insane: —								
Worcester Hospital, . . . . .	13	14.33	\$51 90	\$0.1079	51	47.34	\$31 90	\$0.2190
Taunton Hospital, . . . . .	17	19.89	40 92	.1398	38	22.03	32 86	.1243
Northampton Hospital, . . . . .	16	11.68	56 93	.1552	22	14.91	45 69	.1590
Danvers Hospital, . . . . .	24	18.94	43 98	.1271	28	31.12	33 84	.1607
Westborough Hospital, . . . . .	25	27.41	44 91	.2164	29	30.76	36 29	.1962
Boston Hospital (including Psychopathic Department), . . . . .	23	22.93	52 09	.1611	62	59.26	32 40	.2590
Grafton Hospital, . . . . .	24	22.93	44 85	.1284	72	55.61	32 48	.2255
Medfield Hospital, . . . . .	27	25.72	41 66	.1588	47	39.66	33 08	.1944
Foxborough Hospital, . . . . .	10	8.58	49 08	.2140	16	16.51	33 36	.2799
Gardner Colony, . . . . .	23	19.67	44 43	.2392	14	13.42	44 13	.1621
Totals and averages, . . . . .	202	192.08	\$47 46	\$0.1556	379	330.62	\$34 07	\$0.1975
Miscellaneous: —								
Monson Hospital, . . . . .	20	16.39	\$56 55	\$0.2345	24	16.48	\$45 96	\$0.1916
School for Feeble-minded at Waltham, . . . . .	19	15.95	54 89	.1323	22	17.18	41 90	.1088
Wrentham School, . . . . .	12	9.10	50 69	.0882	14	7.32	50 82	.0711
Totals and averages, . . . . .	51	41.44	\$54 63	\$0.1433	60	40.98	\$45 12	\$0.1171
Totals and averages, hospitals and miscellaneous, . . . . .	253	233.52	\$47 70	\$0.1529	439	371.60	\$35 29	\$0.1801

TABLE 9. — Comparative Analysis of Pay Roll, by Departments — Continued.

INSTITUTIONS.	MALE WARD SERVICE.										
	Full Roster.	Average Number of Males in Service.	Full Roster.	Average Number of Females in Service.	Full Roster.	Average Number of Persons.	Number of Patients to One Nurse.	AVERAGE MONTHLY COMPEN- SATION.			Average Weekly Per Capita Cost.
								Males.	Females.	Totals.	
The insane: —											
Worcester Hospital, . . . . .	88	66.81	6	2.20	94	69.01	11.93	\$40 11	\$49 43	\$40 40	\$0.4044
Taunton Hospital, . . . . .	44	28.09	42	22.39	86	50.48	13.16	45 41	42 53	44 13	.3825
Northampton Hospital, . . . . .	61	29.69	—	—	61	29.69	16.64	50 52	—	50 52	.3500
Danvers Hospital, . . . . .	72	58.71	13	11.64	85	70.35	9.16	41 58	40 98	43 99	.4723
Westborough Hospital, . . . . .	67	57.52	12	3.41	79	60.93	8.40	42 89	44 07	42 96	.4601
Boston Hospital (including Psycho- pathic Department), . . . . .	86	79.61	21	14.99	107	94.60	7.85	43 24	47 00	43 83	.5593
Grafton Hospital, . . . . .	95	74.10	2	2.63	97	76.73	11.43	39 91	38 05	39 87	.3820
Medfield Hospital, . . . . .	69	66.16	—	—	69	66.16	9.03	40 06	—	40 06	.3928
Foxborough Hospital, . . . . .	28	26.13	1	1.00	29	27.13	7.12	42 84	46 46	42 98	.5926
Gardner Colony, . . . . .	41	40.92	2	2.33	43	43.25	11.57	41 58	40 57	41 53	.4917
Totals and averages, . . . . .	651	527.74	99	60.59	750	588.33	10.35	\$42 47	\$43 47	\$42 57	\$0.4391
Miscellaneous: —											
Monson Hospital, . . . . .	48	36.67	11	5.91	59	42.58	10.62	\$53 00	\$55 49	\$53 35	\$0.5748
School for Feeble-minded at Waltham, . . . . .	18	15.03	70	58.16	88	73.19	12.47	43 96	42 13	42 50	.4702
Wrentham School, . . . . .	8	5.66	42	30.59	50	36.25	14.14	38 98	43 13	42 48	.2945
Totals and averages, . . . . .	74	57.36	123	94.66	197	152.02	12.35	\$49 25	\$43 29	\$45 54	\$0.4382
Totals and averages, hospitals and miscellaneous, . . . . .	725	585.10	222	155.25	947	740.35	10.77	\$43 13	\$43 36	\$43 18	\$0.4389

TABLE 9. — *Comparative Analysis of Pay Roll, by Departments — Continued.*

INSTITUTIONS.	FEMALE WARD SERVICE.					TOTAL WARD SERVICE.				
	Full Roster.	Average Number of Females in Service.	Average Number of Patients to One Nurse.	Average Monthly Compensation.	Average Weekly Per Capita Cost.	Full Roster.	Average Number of Persons.	Average Number of Persons to One Employee.	Average Monthly Compensation.	Average Weekly Per Capita Cost.
The insane: —										
Worcester Hospital, . . . . .	104	60.80	12.02	\$38 11	\$0.3361	198	129.81	11.97	\$39 33	\$0.7405
Taunton Hospital, . . . . .	83	54.59	11.84	41 22	.3865	169	105.07	12.48	42 62	.7690
Northampton Hospital, . . . . .	62	30.87	15.39	45 75	.3295	123	60.56	16.00	48 09	.6795
Danvers Hospital, . . . . .	100	71.21	11.82	41 70	.4332	185	141.56	10.49	42 84	.9255
Westborough Hospital, . . . . .	81	68.14	10.94	40 61	.4863	160	129.07	9.74	41 72	.9464
Boston Hospital (including Psychopathic Department), . . . . .	139	117.87	8 15	40 31	.6409	246	212.47	8.01	41 88	1.2002
Grafton Hospital, . . . . .	97	82.90	11.53	38 06	.3940	194	159.63	11.48	38 93	.7760
Medfield Hospital, . . . . .	105	85.97	10.99	39 47	.5030	174	152.13	10 14	39 73	.8958
Foxborough Hospital, . . . . .	29	19.60	12.32	39 44	.3929	58	46.73	9.73	41 49	.9855
Gardner Colony, . . . . .	30	29.22	10.26	38 88	.3109	73	72.47	11.04	40 46	.8026
Totals and averages, . . . . .	830	621.17	11.01	\$40 13	\$0.4370	1,580	1,209.50	10.70	\$41 32	\$0.8761
Miscellaneous: —										
Monson Hospital, . . . . .	68	33.06	13.90	\$50 20	\$0.4200	127	75.64	12.06	\$51 97	\$0.9948
School for Feeble-minded at Waltham, . . . . .	73	56.41	10.88	40 48	.3451	161	129.60	11.78	41 62	.8153
Wrentham School, . . . . .	76	50.49	13.76	35 98	.3473	126	86.74	13.92	38 70	.6418
Totals and averages, . . . . .	217	139.96	12.64	\$41 15	\$0.3645	414	291.98	12.49	\$43 44	\$0.8027
Totals and averages, hospitals and miscellaneous, . . . . .	1,047	761.13	11.31	\$40 32	\$0.4213	1,994	1,501.48	11.04	\$41 73	\$0.8602

TABLE 9. -- Comparative Analysis of Pay Roll, by Departments -- Continued.

INSTITUTIONS.	INDUSTRIAL AND EDUCATIONAL DEPARTMENT.					ENGINEERING DEPARTMENT.			
	Full Roster.	Average Number of Persons.	Average Monthly Compensation.	Average Weekly Per Capita Cost.		Full Roster.	Average Number of Persons.	Average Monthly Compensation.	Average Weekly Per Capita Cost.
The insane: --									
Worcester Hospital, . . . . .	5	3.47	\$55 04	\$0.0277		16	11.47	\$123 92	\$0.2062
Taunton Hospital, . . . . .	3	2.89	84 73	.0430		18	16.90	103 91	.3015
Northampton Hospital, . . . . .	3	1.60	68 17	.0254		14	9.26	129 02	.2788
Danvers Hospital, . . . . .	3	2.52	75 29	.0290		22	19.03	121 83	.3538
Westborough Hospital, . . . . .	-	-	-	-		22	19.47	121 16	.4146
Boston Hospital (including Psychopathic Department), . . . . .	6	5.76	55 32	.0430		25	22.62	112 50	.3432
Grafton Hospital, . . . . .	6	3.89	65 95	.0320		24	25.23	95 28	.3002
Medfield Hospital, . . . . .	6	4.88	67 42	.0488		17	14.47	122 00	.2616
Foxborough Hospital, . . . . .	5	4.80	51 07	.1246		10	6.78	131 33	.4326
Gardner Colony, . . . . .	9	8.56	55 34	.1297		8	7.04	103 68	.1998
Totals and averages, . . . . .	46	38.37	\$61 45	\$0.0413		176	152.27	\$114 17	\$0.3048
Miscellaneous: --									
Monson Hospital, . . . . .	4	2.01	\$77 06	\$0.0392		11	9.08	\$121 27	\$0.2786
School for feeble-minded at Waltham, . . . . .	24	18.27	61 70	.1703		13	10.89	127 19	.2093
Wrentham School, . . . . .	18	14.12	57 17	.1543		11	7.98	126 88	.1936
Totals and averages, . . . . .	46	34.40	\$60 74	\$0.1322		35	27.95	\$125 18	\$0.2215
Totals and averages, hospitals and miscellaneous, . . . . .	92	72.77	\$61 11	\$0.0610		211	180.22	\$115 87	\$0.2867



TABLE 9. — Comparative Analysis of Pay Roll, by Departments — Continued.

INSTITUTIONS.	REPAIRS.				FARM.			
	Full Roster.	Average Number of Persons.	Average Monthly Compensation.	Average Weekly Per Capita Cost.	Full Roster.	Average Number of Persons.	Average Monthly Compensation.	Average Weekly Per Capita Cost.
The insane: —								
Worcester Hospital, . . . . .	12	9.34	\$118.27	\$0.1602	21	22.20	\$47.16	\$0.1519
Taunton Hospital, . . . . .	12	9.50	120.01	.1958	15	11.46	60.51	.1191
Northampton Hospital, . . . . .	7	6.52	125.41	.1908	20	17.13	59.70	.2386
Danvers Hospital, . . . . .	20	16.78	118.14	.3026	17	14.30	56.85	.1241
Westborough Hospital, . . . . .	14	9.31	112.40	.1839	16	14.78	47.29	.1228
Boston Hospital (including Psychopathic Department), . . . . .	11	10.71	107.45	.1552	16	14.80	49.07	.0980
Grafton Hospital, . . . . .	17	13.32	112.37	.1860	27	33.07	44.99	.1858
Medfield Hospital, . . . . .	13	9.62	117.40	.1674	22	22.59	47.79	.1600
Foxborough Hospital, . . . . .	10	9.49	117.20	.5654	9	10.11	53.98	.2774
Gardner Colony, . . . . .	8	7.04	122.96	.2370	17	15.02	61.50	.2529
Totals and averages, . . . . .	124	101.63	\$116.56	\$0.2077	180	175.46	\$51.51	\$0.1585
Miscellaneous: —								
Monson Hospital, . . . . .	5	3.76	\$116.48	\$0.1108	19	15.84	\$58.17	\$0.2331
School for Feeble-minded at Waltham, . . . . .	9	7.36	136.51	.1518	29	19.82	60.55	.1814
Wrentham School, . . . . .	6	4.93	130.75	.1233	11	11.19	55.02	.1177
Totals and averages, . . . . .	20	16.05	\$125.55	\$0.1321	59	46.85	\$58.42	\$0.1732
Totals and averages, hospitals and miscellaneous, . . . . .	144	117.68	\$118.40	\$0.1913	239	222.31	\$52.97	\$0.1617

TABLE 9. — Comparative Analysis of Pay Roll, by Departments — Concluded.

INSTITUTIONS.	GARAGE, STABLE AND GROUNDS.				ALL PERSONS EMPLOYED.				
	Full Roster.	Average Number of Persons.	Average Monthly Compensation.	Average Weekly Per Capita Cost.	Full Roster.	Average Number of Persons.	Number of Persons to One Employee.	Average Monthly Compensation.	Average Weekly Per Capita Cost.
The insane:—									
Worcester Hospital, . . . . .	3	4.48	\$47 56	\$0.0309	351	272.07	5.71	\$49 87	\$1.9681
Taunton Hospital, . . . . .	3	2.99	90 87	.0466	301	214.87	6.10	56 16	2.0720
Northampton Hospital, . . . . .	2	2.82	63 33	.0417	227	139.47	6.95	63 33	2.1223
Danvers Hospital, . . . . .	5	4.96	52 42	.0397	333	272.97	5.44	56 66	2.3606
Westborough Hospital, . . . . .	6	5.81	46 73	.0477	302	262.15	4.90	53 75	2.4763
Boston Hospital (including Psychopathic Department), . . . . .	11	15.24	46 48	.0955	473	433.54	3.93	53 75	3.1431
Grafton Hospital, . . . . .	6	4.74	48 67	.0288	398	342.15	5.36	49 41	2.1110
Medfield Hospital, . . . . .	7	6.18	52 61	.0482	335	294.30	5.24	50 26	2.1924
Foxborough Hospital, . . . . .	3	2.96	55 66	.0838	140	121.03	3.76	58 37	3.5909
Gardner Colony, . . . . .	4	2.82	70 42	.0544	172	160.27	4.99	55 23	2.4231
Totals and averages, . . . . .	50	53.00	\$53 25	\$0.0495	3,032	2,512.82	5.15	\$53 81	\$2.3705
Miscellaneous:—									
Monson Hospital, . . . . .	3	2.87	\$55 33	\$0.0402	239	161.55	5.64	\$63 26	\$2.5860
School for Feeble-minded at Waltham, . . . . .	4	2.85	50 91	.0219	307	242.59	6.29	56 94	2.0876
Wrentham School, . . . . .	4	2.69	52 91	.0272	222	160.50	7.52	56 02	1.7190
Totals and averages, . . . . .	11	8.41	\$53 14	\$0.0282	768	564.64	6.46	\$58 49	\$2.0902
Totals and averages, hospitals and miscellaneous, . . . . .	61	61.41	\$52 97	\$0.0449	3,800	3,077.46	5.39	\$54 66	\$2.3097

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# GENERAL STATISTICS

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TABLE 10. — *Statistical Form for State Institutions. — Prepared in Accordance with a Resolution of the National Conference of Charities and Corrections, adopted May 15, 1906.*

INSTITUTIONS.	SUPERINTENDENTS.	POPULATION.							
		NUMBER OF INMATES PRESENT AT BEGINNING OF FISCAL YEAR.		NUMBER RECEIVED DURING THE YEAR.		NUMBER DISCHARGED OR DIED DURING THE YEAR.		Males.	Females.
		Males.	Females.	Totals.	Males.	Females.	Totals.		
Worcester State Hospital, . . . .	B. Henry Mason, M.D. (act- ing superintendent.	1,019	875	1,894	367	250	617	389	249
Taunton State Hospital, . . . .	Arthur V. Goss, M.D., . .	774	826	1,600	274	247	521	282	271
Northampton State Hospital, . . . .	John A. Houston, M.D., . .	588	581	1,169	237	226	463	221	196
Danvers State Hospital, . . . .	John B. Macdonald, M.D., .	801	1,028	1,829	357	381	738	367	356
Westborough State Hospital, . . . .	Walter E. Lang, M.D., . .	655	937	1,592	200	265	465	198	279
Boston State Hospital, . . . .	James V. May, M.D., . .	844	1,075	1,919	1,121	1,028	2,149	1,088	941
Grafton State Hospital, . . . .	Hiram L. Horsman, M.D. (acting superintendent).	954	1,002	1,956	72	87	159	112	96
Medfield State Hospital, . . . .	Elisha H. Cohoon, M. D., .	661	998	1,659 <sup>1</sup>	76	81	157	108	103
Gardner State Colony, . . . .	Charles E. Thompson, M.D.,	511	337	848	76	20	96	50	9
Monson State Hospital, . . . .	Everett Flood, M.D., . .	578	567	1,145	136	97	233	178	128
Foxborough State Hospital, . . . .	Albert C. Thomas, M.D., .	218	230	448 <sup>2</sup>	75	81	156	51	38
Massachusetts School for the Feeble- minded at Waltham.	Walter E. Fernald, M.D., .	925	626	1,551	255	82	337	265	90
Wrentham State School, . . . .	George L. Wallace, M.D., .	506	706	1,212	144	144	288	131	163
Totals, . . . .	. . . .	9,034	9,788	18,822	3,300	2,989	6,379	3,440	2,919
									6,359

<sup>1</sup> Includes 1 additional patient carried on the books.

<sup>2</sup> Exclusive of 5 patients whose visits were confirmed by institution.

TABLE 10. — *Statistical Form for State Institutions, etc. — Continued.*

INSTITUTIONS.	POPULATION — Con.								
	NUMBER AT END OF FISCAL YEAR.			DAILY AVERAGE NUMBER OF PATIENTS ON BOOKS.			AVERAGE NUMBER OF OFFICERS AND EMPLOYEES DURING THE YEAR.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Worcester State Hospital, . . . . .	997	876	1,873	1,005.98	879.40	1,885.38	139.75	132.32	272.07
Taunton State Hospital, . . . . .	766	802	1,568	765.92	792.17	1,558.09	110.09	104.78	214.87
Northampton State Hospital, . . . . .	604	611	1,215	586.81	581.70	1,168.51	77.44	62.02	139.46
Danvers State Hospital, . . . . .	791	1,053	1,844	794.29	1,042.82	1,837.11	141.51	131.46	272.97
Westborough State Hospital, . . . . .	657	923	1,580	646.81	944.73	1,591.54	133.42	128.73	262.15
Boston State Hospital, . . . . .	877	1,162	2,039	762.11	1,115.59	1,877.70	191.02	242.51	433.53
Grafton State Hospital, . . . . .	914	993	1,907	932.92	992.70	1,925.62	174.08	168.07	342.15
Medfield State Hospital, . . . . .	629	976	1,605	621.68	979.91	1,601.59	152.41	141.89	294.30
Gardner State Colony, . . . . .	537	348	885	518.04	339.80	857.84	87.01	73.26	160.27
Monson State Hospital, . . . . .	536	536	1,072	550.04	527.70	1,077.74	88.91	72.64	161.55
Foxborough State Hospital, . . . . .	242	273	515	226.23	259.24	485.47	64.64	56.39	121.03
Massachusetts School for the Feeble-minded at Waltham, . . . . .	915	618	1,533	904.00	609.00	1,513.00	65.08	177.51	242.59
Wrentham State School, . . . . .	519	687	1,206	512.62	694.77	1,207.39	42.44	118.05	160.49
Totals, . . . . .	8,984	9,858	18,842	8,827.45	9,759.53	18,586.98	1,467.80	1,609.63	3,077.43

TABLE 10. — *Statistical Form for State Institutions, etc. — Concluded.*

INSTITUTIONS.	EXPENDED.						New Buildings, Permanent Improve-ments, Land, etc.	Grand Totals.
	CURRENT EXPENSES.							
	Salaries and Wages.	Clothing.	Subsistence.	Ordinary Repairs.	Office, Domestic and Outdoor Expenses.	Totals.		
Worcester State Hospital, . . . . .	\$162,824 60	\$14,455 01	\$123,786 86	\$19,494 49	\$152,581 76	\$473,142 72	\$25,219 58	\$498,362 30
Taunton State Hospital, . . . . .	144,806 73	22,895 10	108,358 41	10,503 87	158,936 86	445,500 97	12,177 43	457,678 40
Northampton State Hospital, . . . . .	109,147 66	7,270 22	84,961 12	15,348 92	91,887 67	308,615 59	88,743 60	397,359 19
Danvers State Hospital, . . . . .	185,596 82	16,804 89	94,431 72	20,179 79	116,818 30	433,831 52	26,670 84	460,502 36
Westborough State Hospital, . . . . .	169,071 22	20,519 45	106,451 85	12,007 57	158,815 21	466,865 30	59,039 15	525,904 45
Boston State Hospital, . . . . .	279,644 50	26,165 21	189,572 46	19,928 60	153,786 79	669,097 56	225,244 99	894,342 55
Grafton State Hospital, . . . . .	202,863 68	38,174 50	165,417 87	17,524 31	169,288 47	593,268 83	32,277 20	625,546 03
Medfield State Hospital, . . . . .	177,509 51	29,272 39	133,336 50	24,470 41	183,040 00	547,628 81	19,197 23	566,826 04
Gardner State Colony, . . . . .	106,218 54	13,468 68	53,325 15	16,093 10	95,966 95	285,072 42	10,970 70	296,043 12
Monson State Hospital, . . . . .	122,640 35	8,994 91	67,221 87	12,245 64	94,064 78	305,167 55	—	305,167 55
Foxborough State Hospital, . . . . .	84,774 23	7,992 83	41,089 03	6,882 40	57,893 21	198,631 70	166,219 08	364,850 78
Massachusetts School for the Feeble-minded at Wal- tham.	165,761 68	30,278 45	112,767 80	18,183 33	154,186 05	481,177 31	2,440 46	483,617 77
Wrentham State School, . . . . .	107,889 80	24,255 17	99,145 23	15,942 49	101,735 11	348,967 80	37,215 37	386,183 17
Totals, . . . . .	\$2,018,749 32	\$260,546 81	\$1,379,865 87	\$208,804 92	\$1,689,001 16	\$5,556,968 08	\$705,415 63	\$6,262,383 71

TABLE 11. — *Classes of Persons under Supervision, their Number and Location, Oct. 1, 1919, and their Increase for the Year.*

INSANE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	IN INSTITUTION.						In Family Care.	On Visit and Es-cape.	ON BOOKS.						Non-resident.	EPILEPTIC.			FOR TEMPORARY CARE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	NUMBER.			INCREASE FOR THE YEAR.					NUMBER.			INCREASE FOR THE YEAR.				Males.	Females.	Totals.	Males.	Females.	Totals.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	Males.	Females.	Totals.	Males.	Females.	Totals.			Males.	Females.	Totals.	Males.	Females.	Totals.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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<sup>1</sup> Decrease.



TABLE 11. — *Classes of Persons under Supervision, etc.* — Continued.

OTHER CLASSES.										ALL CLASSES.													
INSANE — CON.										ON BOOKS.													
CRIMINAL.					IN INSTITUTION.					IN INSTITUTION AND IN FAMILY CARE.					ON BOOKS.								
					VOLUNTARY.			INEBRIATE.		On Visit and Es- cape.		Males.		Females.		Totals.		Males.		Females.		Totals.	
					MENTAL (SANE).			NON-MENTAL.															
					Males.	Females.	Totals.	Males.	Females.	Totals.													
Insane: —																							
Public institutions: —																							
Worcester Hospital, . . . . .					8	9	17	1	1	2													
Taunton Hospital, . . . . .					1	3	4	—	—	—													
Northampton Hospital, . . . . .					3	2	5	—	—	—													
Danvers Hospital, . . . . .					6	1	7	—	—	—													
Westborough Hospital, . . . . .					2	6	8	—	4	4													
Boston Hospital, . . . . .					5	—	5	—	—	—													
Grafton Hospital, . . . . .					5	1	6	—	—	—													
Medfield Hospital, . . . . .					2	9	11	—	—	—													
Gardner State Colony, . . . . .					—	—	—	—	—	—													
Monson Hospital, . . . . .					—	—	—	311	351	662													
Foxborough Hospital, . . . . .					—	—	—	—	—	—													
Mental wards, State Infirmary, . . . . .					820	—	820	—	—	—													
Bridgewater Hospital, . . . . .					—	—	—	—	—	—													
Totals, . . . . .					852	31	883	312	356	668													
Family care under the Commission, . . . . .					—	—	—	—	—	—													
Totals, public, . . . . .					852	31	883	312	356	668													
Private institutions: —																							
McLean Hospital, . . . . .					—	—	—	1	1	2													
Smaller institutions, . . . . .					—	—	—	2	16	18													
Totals, private, . . . . .					—	—	—	3	17	20													
Totals, public and private, . . . . .					852	31	883	315	373	688													

TABLE 11. — *Classes of Persons under Supervision, etc. — Continued.*

	IN INSTITUTION.				On Visit and Es- cape.	ON BOOKS.								
	NUMBER.			Totals.		INCREASE FOR THE YEAR.			Totals.	INCREASE FOR THE YEAR.				
	Males.	Females.	Totals.			Males.	Females.	Totals.		Males.	Females.	Totals.		
Feeble-minded: —														
School for the Feeble-minded at Waltham,	915	618	1,533	101	81	181	304	1,155	682	1,837	69	8	77	
Wrentham School,	517	689	1,206	11	171	61	176	593	789	1,382	15	12	27	
Hospital Cottages for Children,	48	27	75	3	21	1	—	48	27	75	3	21	1	
Elm Hill Institution,	30	11	41	11	—	11	—	30	11	41	11	—	11	
Smaller private institutions,	10	33	43	51	—	51	—	10	33	43	51	—	51	
Almshouses and private families,	113	111	224 <sup>2</sup>	23	12	35	—	113	111	224	23	12	35	
Totals, feeble-minded,	1,633	1,489	3,122	21	151	6	480	1,949	1,653	3,602	104	30	134	
Epileptics: —														
Monson Hospital,	446	476	922	91	231	321	—	—	—	—	—	—	—	
Public institutions for insane,	199	185	384	351	241	591	—	—	—	—	—	—	—	
School for the Feeble-minded at Waltham,	8	5	13	—	—	—	—	—	—	—	—	—	—	
Hospital Cottages for Children,	35	17	52	31	21	51	—	—	—	—	—	—	—	
Private institutions,	3	4	7	31	—	31	—	—	—	—	—	—	—	
Totals, epileptics,	691	687	1,378	501	491	991	—	—	—	—	—	—	—	
Whole number of persons under supervision,	—	—	—	—	—	—	—	—	—	—	—	—	—	
Viz., insane, feeble-minded, epileptic and inebriate,	—	—	—	—	—	—	—	—	—	—	—	—	—	
Voluntary mental patients (sane),	—	—	—	—	—	—	—	—	—	—	—	—	—	
Other classes,	—	—	—	—	—	—	—	—	—	—	—	—	—	

<sup>1</sup> Decrease.

<sup>2</sup> Taken from reports of overseers of the poor, March, 1920.



TABLE 12. — Movement of Insane Patient Population in Institutions and boarded in Private Families for the Year ending Sept. 30, 1919.

	Worcester Hospital.	Taunton Hospital.	Northampton Hospital.	Danvers Hospital.	Westborough Hospital.	Boston Hospital.	Grafton Hospital.	Medfield Hospital.	Gardner Colony.	Monson Hospital.
1. Insane patients on books Sept. 30, 1918,										
Men, . . . . .	1,893	1,600	1,169	1,829	1,571	1,919	1,956	1,659 <sup>1</sup>	848	289
Women, . . . . .	1,018	774	588	801	649	844	954	661	511	159
Admissions during year: —	875	826	581	1,028	922	1,075	1,002	998	337	130
A. First admissions, . . . . .	379	393	361	509	215	1,699	21	26	16	6
Men, . . . . .	225	206	184	253	100	881	13	14	15	3
Women, . . . . .	154	187	177	256	115	818	8	12	1	3
B. Readmissions, . . . . .	226	118	100	211	225	439	31	49	1	—
Men, . . . . .	135	63	53	98	94	235	26	31	—	—
Women, . . . . .	91	55	47	113	131	204	5	18	1	—
Total admissions, . . . . .	605	511	461	720	440	2,138	52	75	17	6
Men, . . . . .	360	269	237	351	194	1,116	39	45	15	3
Women, . . . . .	245	242	224	369	246	1,022	13	30	2	3
C. Transfers from other institutions,	8	6	—	18	17	11	107	82	79	61
Men, . . . . .	5	2	—	6	2	5	33	31	61	35
Women, . . . . .	3	4	—	12	15	6	74	51	18	26
Total received during year, . . . . .	613	517	461	738	457	2,149	159	157	96	67
Men, . . . . .	365	271	237	357	196	1,121	72	76	76	38
Women, . . . . .	248	246	224	381	261	1,028	87	81	20	29
Total under treatment during year, . . . . .	2,506	2,117	1,630	2,567	2,028	4,068	2,115	1,816	944	356
Men, . . . . .	1,383	1,045	825	1,158	845	1,965	1,026	737	587	197
Women, . . . . .	1,123	1,072	805	1,409	1,183	2,103	1,089	1,079	357	159
Discharged from books during year: —										
A. As recovered, . . . . .	69	58	58	68	74	107	3	6	—	—
Men, . . . . .	39	39	27	37	26	58	3	5	—	—
Women, . . . . .	30	19	31	31	48	49	—	1	—	—
B. As improved, . . . . .	141	127	67	215	149	270	30	17	12	3
Men, . . . . .	97	60	34	109	61	155	23	5	9	2
Women, . . . . .	44	67	33	106	88	115	7	12	3	1
C. As unimproved, . . . . .	78	40	47	47	40	882	16	28	3	9
Men, . . . . .	50	19	26	28	23	493	8	19	3	8
Women, . . . . .	28	21	21	19	17	389	8	9	—	1



D. As not insane, Men,	36	10	14	7	5	430	—	4	—	—
Women,	27	10	4	6	3	204	—	3	—	—
E. Transferred to other institutions, Men,	9	—	10	1	2	226	—	1	—	—
Women,	66	57	92	128	54	15	5	7	3	1
F. Died during year, Men,	25	15	44	56	12	6	3	3	2	1
Women,	245	257	137	258	42	9	2	4	—	—
Men,	133	136	86	131	139	325	154	149	41	67
Women,	112	121	51	127	69	172	75	73	36	40
4. Total discharged from books during year, Men,	635	549	415	723	461	153	179	76	5	27
Women,	387	279	221	367	194	2,029	208	211	59	80
Men,	248	270	194	356	267	1,088	112	108	50	51
Women,	1,871	1,568	1,215	1,844	1,567	941	96	103	9	29
5. Insane patients remaining on books Sept. 30, 1919, Men,	996	766	604	791	651	2,039	1,907	1,605	885	276
Women,	875	802	611	1,053	916	877	914	629	537	146
6a. Average daily number of patients on books during year, Men,	1,883.90	1,557.54	1,168.462	1,837.114	1,571.487	1,162	993	976	348	130
Women,	1,004.90	765.682	586.813	794.288	637.834	1,877.70	1,925.62	1,601.594	857.846	267.991
6b. Average daily number of patients in institutions during year, Men,	879.00	792.072	581.649	1,042.826	933.653	762.11	932.92	621.677	518.045	149.421
Women,	1,550.44	1,316.359	972.269	1,486.942	1,259.803	1,115.39	992.70	979.917	339.801	118.570
Men,	823.84	666.143	496.490	640.346	520.824	1,587.41	1,831.77	1,543.888	795.550	253.811
Women,	726.60	650.226	475.779	846.596	738.979	632.55	879.77	507.486	495.192	139.202
7a. Average daily number of patients in family care during year, Men,	37.96	34.211	20.078	26.288	25.601	954.86	952.00	946.402	300.358	114.609
Women,	50	5.923	2.978	6.92	—	8.08	16.93	14.681	41.853	—
7b. Average daily number of patients on visit and escape during year, Men,	37.46	28.288	17.100	25.596	25.601	8.08	16.58	13.641	31.039	—
Women,	295.50	207.174	176.115	323.884	286.083	282.21	76.92	43.025	20.443	14.180
Men,	180.56	93.616	87.345	153.250	117.010	129.56	52.80	23.151	12.039	10.219
Women,	114.94	113.558	88.770	170.634	169.073	152.65	24.12	19.874	8.404	3.961
8. Number of insane voluntary patients admitted during year, Men,	4	4	21	29	42	352	9	4	3	—
Women,	3	2	13	13	14	207	6	2	2	—
9. Number of temporary-care cases admitted during year, Men,	1	2	8	16	28	145	3	2	1	—
Women,	180	159	184	252	58	—	—	17	3	—
Men,	126	89	87	131	34	—	—	13	3	—
Women,	54	70	97	121	24	—	—	4	—	—
10. Number of patients actually remaining in institution Sept. 30, 1919, Men,	1,553	1,318	982	1,478	1,269	1,727	1,826	1,539	805	260
Women,	825	658	497	644	533	764	865	600	507	135
Men,	728	660	485	834	736	963	961	939	298	125
Women,	1,346	1,180	771	1,186	1,007	1,488	1,755	1,487	789	248
State, Reimbursing, Private,	106	88	105	163	73	163	63	46	13	9
11. Number of patients in family care Sept. 30, 1919, Men,	35	31	20	23	25	76	8	6	3	3
Women,	1	5	3	21	—	8	12	15	47	—
Men,	34	26	17	2	25	—	11	3	11	—
Women,	23	21	15	21	20	8	11	12	36	—
State, Self-supporting, Private,	5	9	1	—	—	6	12	10	24	—
Men,	7	1	4	2	5	—	—	5	22	—
Women,	—	—	—	—	—	2	—	—	1	—

<sup>1</sup> Exclusive of 2 reported last year by hospital who should have been included with dismissals.

TABLE 12. — Movement of Insane Patient Population in Institutions and boarded in Private Families for the Year ending Sept. 30, 1919 — Continued.

	Worcester Hospital.	Taunton Hospital.	Northampton Hospital.	Danvers Hospital.	Westborough Hospital.	Boston Hospital.	Grafton Hospital.	Medfield Hospital.	Gardner Colony.	Monson Hospital.
12. Number of non-insane patients Sept. 30, 1919,										
A. Drug cases,	2				4					662
Men,										
Women,										
B. Inebriates,	1				7					
Men,										
Women,										
C. Neurological cases,					4					
Men,										
Women,					4					
D. Epileptics (not feeble-minded),										662
Men,										311
Women,										351
E. Feeble-minded cases (not epileptics),										
Men,										
Women,										
F. Feeble-minded epileptics,										
Men,										
Women,										
G. All other cases,	2									
Men,	1									
Women,	1									
H. Persons given advice or treatment in out-patient department during year,	112	182	186	211	177	2,112	129		58	48
Men,	60	108	103	96	67	928	58		23	29
Women,	52	74	83	115	110	1,184	71		35	19









TABLE 13. — *Nativity of First Admissions and of Parents of First Admissions at Public Institutions for the Insane and McLean Hospital.*

	PATIENTS.			PARENTS OF MALE PATIENTS.			PARENTS OF FEMALE PATIENTS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
United States, . . . . .	1,137	1,014	2,151	593	606	1,199	541	556	1,097
Africa, . . . . .	-	2	2	-	-	-	2	1	3
Asia (not otherwise specified), .	2	-	2	2	2	4	-	-	-
Australia, . . . . .	1	1	2	-	-	-	1	-	1
Austria, . . . . .	24	24	48	28	25	53	29	25	54
Belgium, . . . . .	1	2	3	3	1	4	3	3	6
Bohemia, . . . . .	1	1	2	2	2	4	-	-	-
Born at sea, . . . . .	-	1	1	-	1	1	-	-	-
Canada (includes Newfoundland), .	151	191	342	215	233	448	241	241	482
China, . . . . .	6	-	6	5	6	11	1	-	1
Cuba, . . . . .	-	-	-	1	1	2	1	1	2
Denmark, . . . . .	2	-	2	3	2	5	1	1	2
England, . . . . .	62	61	123	84	86	170	91	83	174
Finland, . . . . .	15	7	22	17	17	34	7	7	14
France, . . . . .	5	6	11	8	11	19	6	5	11
Germany, . . . . .	26	16	42	53	54	107	40	40	80
Greece, . . . . .	33	5	38	33	32	65	5	5	10
Hawaii, . . . . .	-	1	1	-	-	-	-	1	1
Holland, . . . . .	1	1	2	2	2	4	1	1	2
Hungary, . . . . .	2	1	3	2	3	5	1	1	2
India, . . . . .	-	-	-	-	-	-	-	-	-
Ireland, . . . . .	165	223	388	402	397	799	426	431	857
Italy, . . . . .	101	68	169	106	107	213	79	79	158
Mexico, . . . . .	1	-	1	1	1	2	-	-	-
Norway, . . . . .	7	2	9	7	7	14	3	2	5
Philippine Islands, . . . . .	-	-	-	-	-	-	-	-	-
Poland, . . . . .	46	23	69	47	46	93	24	25	49
Portugal, . . . . .	29	11	40	32	32	64	17	14	31
Roumania, . . . . .	-	1	1	-	-	-	1	1	2
Russia, . . . . .	105	77	182	124	113	237	100	98	198
Scotland, . . . . .	8	13	21	44	22	66	33	31	64
South America, . . . . .	-	-	-	1	-	1	-	-	-

TABLE 13. — *Nativity of First Admissions and of Parents of First Admissions at Public Institutions for the Insane and McLean Hospital*  
— Concluded.

	PATIENTS.			PARENTS OF MALE PATIENTS.			PARENTS OF FEMALE PATIENTS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Spain, . . . . .	4	—	4	4	4	8	1	1	2
Sweden, . . . . .	33	27	60	43	27	70	36	37	73
Switzerland, . . . . .	—	1	1	4	2	6	2	1	3
Syria, . . . . .	3	1	4	—	—	—	1	1	2
Turkey in Asia, . . . . .	11	2	13	15	15	30	2	2	4
Turkey in Europe, . . . . .	11	2	13	10	10	20	2	2	4
Ukraine, . . . . .	—	1	1	—	—	—	1	1	2
Wales, . . . . .	—	—	—	2	2	4	2	—	2
West Indies (except Cuba and Porto Rico).	7	7	14	10	9	19	8	7	15
Other countries, . . . . .	5	1	6	8	6	14	3	3	6
Total foreign born, . . . . .	868	780	1,648	1,318	1,278	2,596	1,171	1,151	2,322
Unascertained, . . . . .	12	5	17	106	133	239	87	92	179
Grand total, . . . . .	2,017	1,799	3,816	2,017	2,017	4,034	1,799	1,799	3,598

TABLE 14. — *Citizenship of First Admissions at Public Institutions for the Insane and McLean Hospital.*

	Males.	Females.	Totals.
Citizens by birth, . . . . .	1,132	1,016	2,148
Citizens by naturalization, . . . . .	227	189	416
Aliens, . . . . .	557	494	1,051
Citizenship unascertained, . . . . .	101	100	201
Totals, . . . . .	2,017	1,799	3,816

TABLE 15. — *Psychoses of First Admissions at Public Institutions for the Insane and McLean Hospital.*

PSYCHOSES.	SUBHEADINGS.			MAIN PSYCHOSES.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Traumatic, . . . . .	.	.	.	15	2	17
2. Senile, total, . . . . .	.	.	.	105	190	295
(a) Simple deterioration, . . . . .	55	113	168			
(b) Presbyophrenic type, . . . . .	5	18	23			
(c) Delirious and confused states, . . . . .	11	11	22			
(d) Depressed and agitated states in addition to deterioration, . . . . .	9	12	21			
(e) Paranoid states in addition to deterioration, . . . . .	22	33	55			
(f) Presenile, . . . . .	3	3	6			
3. With cerebral arteriosclerosis, . . . . .	.	.	.	198	97	295
4. General paralysis, . . . . .	.	.	.	208	44	252
5. With cerebral syphilis, . . . . .	.	.	.	27	14	41
6. With Huntingdon's chorea, . . . . .	.	.	.	2	4	6
7. With brain tumor, . . . . .	.	.	.	6	3	9
8. With other brain or nervous diseases, . . . . .	.	.	.	20	16	36
Cerebral embolism, . . . . .	1	1	2			
Paralysis agitans, . . . . .	2	1	3			
Tubercular or other forms of meningitis, . . . . .	3	—	3			
Multiple sclerosis, . . . . .	—	1	1			
Tabes, . . . . .	7	1	8			
Acute chorea, . . . . .	—	—	—			
Other conditions, . . . . .	7	12	19			
9. Alcoholic, total, . . . . .	.	.	.	242	54	296
(a) Pathological intoxication, . . . . .	4	—	4			
(b) Delirium tremens, . . . . .	61	6	67			
(c) Acute hallucinosis, . . . . .	81	16	97			
(d) Acute paranoid type, . . . . .	12	—	12			
(e) Korsakow's psychosis, . . . . .	12	5	17			
(f) Chronic hallucinosis, . . . . .	28	9	37			
(g) Chronic paranoid type, . . . . .	19	7	26			
(h) Alcoholic deterioration, . . . . .	25	10	35			
(i) Other types, acute or chronic, . . . . .	—	1	1			
10. Due to drugs and other exogenous toxins, total, . . . . .	.	.	.	2	1	3
(a) Morphine, cocaine, bromides, chloral, etc., alone or combined, . . . . .	—	1	1			
(b) Metals, as lead, arsenic, etc., . . . . .	1	—	1			
(c) Gases, . . . . .	1	—	1			
(d) Other exogenous toxins, . . . . .	—	—	—			
11. With pellagra, . . . . .	.	.	.	—	10	10
12. Psychoses with other somatic diseases, total, . . . . .	.	.	.	60	80	140
(a) Delirium with infectious diseases, . . . . .	20	28	48			
(b) Post-infectious psychoses, . . . . .	15	10	25			
(c) Exhaustion delirium, . . . . .	9	17	26			
(d) Delirium of unknown origin, . . . . .	—	6	6			
(e) Diseases of the ductless glands, . . . . .	—	1	1			
(f) Cardiorenal disease, . . . . .	9	7	16			
(g) Cancer, . . . . .	2	—	2			
(h) Other diseases or conditions, . . . . .	5	11	16			
13. Manic-depressive, total, . . . . .	.	.	.	113	195	308
(a) Manic type, . . . . .	45	60	105			
(b) Depressive type, . . . . .	59	116	175			
(c) Stupor, . . . . .	1	—	1			
(d) Mixed type, . . . . .	7	18	25			
(e) Circular type, . . . . .	1	1	2			
14. Involution melancholia, . . . . .	.	.	.	19	55	74
15. Dementia præcox, total, . . . . .	.	.	.	481	505	986
(a) Paranoid type, . . . . .	196	211	407			
(b) Katatonic type, . . . . .	98	141	239			
(c) Hebephrenic type, . . . . .	158	130	288			
(d) Simple type, . . . . .	28	22	50			
(e) Unclassed type, . . . . .	1	1	2			
16. Paranoia and paranoid conditions, . . . . .	.	.	.	24	48	72
17. Psychoneuroses, total, . . . . .	.	.	.	29	58	87
(a) Hysterical type, . . . . .	11	28	39			
(b) Psychasthenic type, . . . . .	8	13	21			
(c) Neurasthenic type, . . . . .	6	10	16			
(d) Anxiety neuroses, . . . . .	4	7	11			



TABLE 15. — *Psychoses of First Admissions at Public Institutions for the Insane and McLean Hospital — Concluded.*

PSYCHOSES.	SUBHEADINGS.			MAIN PSYCHOSES.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
18. With mental deficiency, . . . . .	. . .	. . .	. . .	46	62	108
19. With constitutional psychopathic inferiority, . . . . .	. . .	. . .	. . .	17	9	26
20. Epileptic, total, . . . . .	. . .	. . .	. . .	40	36	76
(a) Deterioration, . . . . .	19	21	40			
(b) Clouded states, . . . . .	18	13	31			
(c) Other conditions, . . . . .	3	2	5			
21. Undiagnosed, . . . . .	. . .	. . .	. . .	133	123	256
22. Not insane, total, . . . . .	. . .	. . .	. . .	230	193	423
(a) Epilepsy without psychosis, . . . . .	14	12	26			
(b) Alcoholism without psychosis, . . . . .	17	7	24			
(c) Drug addiction without psychosis, . . . . .	-	2	2			
(d) Constitutional psychopathic inferiority with- out psychosis, . . . . .	56	54	110			
(e) Mental deficiency without psychosis, . . . . .	86	66	152			
(f) Others, . . . . .	57	52	109			
Totals, . . . . .	. . .	. . .	. . .	2,017	1,799	3,816

TABLE 16. — Race of First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.

RACE.	TOTAL.			TRAUMATIC.			SENILE.			WITH CEREBRAL ARTERIO-SCLEROSIS.			GENERAL PARALYSIS.			WITH CEREBRAL SYPHILIS.			WITH HUNTINGDON'S CHOREA.			WITH BRAIN TUMOR.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
African (black),	34	39	73	7	1	8	43	75	118	90	36	126	56	7	63	4	4	8	1	1	2	1	1	1
American Indian,	5	3	8	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	1
Armenian,	8	1	9	9	7	16	9	7	16	13	2	15	24	8	32	1	3	4	1	1	2	1	1	1
Bulgarian,	10	1	11	3	2	5	3	2	5	8	2	10	7	1	8	2	1	3	2	1	2	1	1	1
Chinese,	10	1	11	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	1
Cuban,	2	3	5	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	1
Dutch and Flemish,	2	3	5	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	1
East Indian,	530	497	1,027	7	1	8	43	75	118	90	36	126	56	7	63	4	4	8	1	1	2	1	1	1
English,	14	8	22	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	1
Finnish,	112	113	225	9	7	16	9	7	16	13	2	15	24	8	32	1	3	4	1	1	2	1	1	1
French,	59	44	103	3	2	5	3	2	5	8	2	10	7	1	8	2	1	3	2	1	2	1	1	1
German,	32	5	37	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	1
Greek,	81	82	163	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	1
Hebrew,	467	517	984	4	4	8	23	62	85	34	24	58	53	13	66	2	2	4	1	1	2	1	1	1
Irish,	113	82	195	1	1	2	1	1	2	3	1	4	11	5	16	2	1	3	1	1	2	1	1	1
Italian,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	1
Japanese,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	1
Korean,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	1
Lithuanian,	22	9	31	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	1
Magyar,	8	18	26	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	1
Mexican,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	1
Pacific Islander,	40	21	61	1	1	2	1	1	2	1	1	2	1	1	2	2	1	3	1	1	2	1	1	1
Portuguese,	3	3	6	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	1
Roumanian,	3	3	6	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	1
Scandinavian,	54	40	94	1	1	2	2	3	5	8	1	9	7	1	7	1	1	2	1	1	2	1	1	1

[illegible]

TABLE 16. — Race of First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital — Continued.

RACE.	WITH OTHER BRAIN OR NERVOUS DISEASES.			ALCOHOLIC.			DUE TO DRUGS AND OTHER EXOGENOUS TOXINS.			WITH PELLAGRA.			WITH OTHER SOMATIC DISEASES.			MANIC- DEPRESSIVE.			INVOLUTION MELANCHOLIA.			DEMENTIA PRÆCOX.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
African (black), . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
American Indian, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Armenian, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bulgarian, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chinese, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cuban, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dutch and Flemish, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
East Indian, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
English, . . . . .	11	5	16	28	8	36	—	—	—	—	—	—	8	11	19	42	56	98	4	13	17	80	115	195
Finnish, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
French, . . . . .	1	1	2	10	7	10	1	—	1	—	—	—	4	9	13	7	7	14	—	7	7	9	5	14
German, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Greek, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hebrew, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Irish, . . . . .	4	2	6	107	31	138	—	—	—	—	—	—	13	23	36	23	49	72	3	19	22	102	142	244
Italian, . . . . .	—	—	—	10	—	10	—	—	—	—	—	—	3	4	7	6	15	21	3	2	5	41	23	64
Japanese, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Korean, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lithuanian, . . . . .	—	—	—	3	—	3	—	—	—	—	—	—	1	—	1	1	—	—	—	—	—	—	—	—
Magyar, . . . . .	—	—	—	1	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mexican, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pacific Islander, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Portuguese, . . . . .	—	—	—	3	1	4	—	—	—	—	—	—	2	—	2	3	—	—	—	—	—	—	—	—
Roumanian, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Scandinavian, . . . . .	1	—	1	8	1	9	—	—	—	—	—	—	—	2	2	2	3	5	—	2	—	15	12	27



[illegible]

TABLE 16. — *Race of First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital — Concluded.*

RACE.	PARANOIA AND PARANOID CONDITIONS.			PSYCHO-NEUROSES.			WITH MENTAL DEFICIENCY.			WITH CONSTITUTIONAL PSYCHOPATHIC INFERIORITY.			EPILEPTIC.			UNDIAGNOSED.			NOT INSANE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
African (black),	5	1	6	-	-	-	2	3	5	-	-	-	1	3	4	5	-	-	6	10	16
American Indian,	-	-	-	1	-	1	1	-	1	-	-	-	-	-	-	-	-	-	2	-	2
Armenian,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bulgarian,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chinese,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
Cuban,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
Dutch and Flemish,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
East Indian,	7	12	19	9	17	26	18	19	37	5	5	10	11	9	20	34	34	68	72	64	136
English,	-	-	-	-	-	-	2	11	13	2	1	3	1	-	1	2	2	4	13	12	25
Finnish,	-	2	2	-	-	-	2	-	2	-	-	-	2	2	4	4	4	12	5	4	9
French,	-	-	-	3	3	3	1	-	1	1	-	1	-	-	-	8	8	16	2	2	4
German,	-	-	-	3	6	10	5	-	5	1	-	-	1	-	1	6	7	13	17	13	30
Greek,	1	3	4	4	17	20	3	10	15	3	2	5	9	11	20	22	36	58	47	52	99
Hebrew,	5	17	22	3	6	9	3	1	4	-	-	-	4	4	8	11	10	21	13	4	17
Irish,	1	2	3	1	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Italian,	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Japanese,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Korean,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithuanian,	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	3	2	5	1	1	2
Magyar,	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	1	1	-	1
Mexican,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pacific Islander,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Portuguese,	2	2	4	-	-	-	-	2	2	1	1	1	1	-	1	1	1	4	-	-	-
Roumanian,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Scandinavian,	1	1	2	1	1	2	1	2	3	1	-	1	-	2	2	5	6	11	1	4	5

Scotch, . . . . .	4	4	1	1	1	2	1	2	3	2	2	3	5	4	3	7
Slavonic, . . . . .	2	2	2	4	1	3	2	3	3	1	7	8	7	7	15	15
Spanish, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Spanish-American, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Syrian, . . . . .	1	1	1	2	1	2	1	1	1	1	2	—	1	3	3	3
Turkish, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Welsh, . . . . .	—	—	—	1	1	—	—	—	—	—	—	—	2	—	—	—
West Indian, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—
Other specific races, . . . . .	—	—	—	—	—	—	—	—	—	—	1	—	1	—	—	—
Mixed, . . . . .	—	2	2	6	6	14	1	4	4	3	10	17	16	35	17	52
Race unascertained, . . . . .	—	1	1	4	4	4	—	—	—	—	—	1	—	—	1	1
Totals, . . . . .	24	48	72	87	46	62	108	17	9	26	40	36	76	133	123	256
														230	193	423

TABLE 17. — Age of First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.

	TOTALS.			YEARS.											
	Males.	Females.	Totals.	UNDER 15.			15-20.			20-25.			25-30.		
				Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Traumatic, . . . . .	15	2	17	1	1	2	1	1	2	1	1	2	1	1	2
2. Senile, . . . . .	105	190	295	1	1	2	1	1	2	1	1	2	1	1	2
3. With cerebral arteriosclerosis, . . . . .	198	97	295	1	1	2	1	1	2	1	1	2	1	1	2
4. General paralysis, . . . . .	208	44	252	1	1	2	1	1	2	1	1	2	1	1	2
5. With cerebral syphilis, . . . . .	27	14	41	1	1	2	1	1	2	1	1	2	1	1	2
6. With Huntingdon's chorea, . . . . .	2	4	6	1	1	2	1	1	2	1	1	2	1	1	2
7. With brain tumor, . . . . .	6	3	9	1	1	2	1	1	2	1	1	2	1	1	2
8. With other brain or nervous diseases, . . . . .	20	16	36	1	1	2	1	1	2	1	1	2	1	1	2
9. Alcoholic, . . . . .	242	54	296	1	1	2	1	1	2	1	1	2	1	1	2
10. Due to drugs and other exogenous toxins, . . . . .	2	1	3	1	1	2	1	1	2	1	1	2	1	1	2
11. With pellagra, . . . . .	—	10	10	1	1	2	1	1	2	1	1	2	1	1	2
12. With other somatic diseases, . . . . .	60	80	140	1	1	2	1	1	2	1	1	2	1	1	2
13. Manic-depressive, . . . . .	113	195	308	1	1	2	1	1	2	1	1	2	1	1	2
14. Involution melancholia, . . . . .	19	55	74	1	1	2	1	1	2	1	1	2	1	1	2
15. Dementia præcox, . . . . .	481	505	986	1	1	2	1	1	2	1	1	2	1	1	2
16. Paranoia and paranoic conditions, . . . . .	24	48	72	1	1	2	1	1	2	1	1	2	1	1	2
17. Psychoneuroses, . . . . .	29	58	87	1	1	2	1	1	2	1	1	2	1	1	2
18. With mental deficiency, . . . . .	46	62	108	1	1	2	1	1	2	1	1	2	1	1	2
19. With psychopathic inferiority, . . . . .	17	9	26	1	1	2	1	1	2	1	1	2	1	1	2
20. Epileptic, . . . . .	40	36	76	1	1	2	1	1	2	1	1	2	1	1	2
21. Undiagnosed, . . . . .	133	123	256	1	1	2	1	1	2	1	1	2	1	1	2
22. Not insane, . . . . .	230	193	423	1	1	2	1	1	2	1	1	2	1	1	2
Totals, . . . . .	2,017	1,799	3,816	32	15	47	138	145	283	186	194	380	194	204	398





TABLE 18. — Degree of Education of First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.

	TOTAL.			ILLITERATE.			READS AND WRITES.			COMMON SCHOOL.			HIGH SCHOOL.			COLLEGE.			UNASCERTAINED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Traumatic, . . . . .	15	2	17	10	1	11	2	1	2	10	1	11	1	1	2	1	1	2	2	1	2
2. Senile, . . . . .	105	190	295	10	36	46	33	38	71	48	79	127	4	18	22	15	4	19	18	7	25
3. With cerebral arteriosclerosis, . . . . .	198	97	295	10	1	11	36	21	57	110	61	171	15	9	24	12	1	13	15	4	19
4. General paralysis, . . . . .	208	44	252	8	3	11	23	7	30	137	26	163	23	4	27	10	10	11	7	4	11
5. With cerebral syphilis, . . . . .	27	14	41	6	1	7	2	2	4	17	10	27	1	1	2	1	1	2	1	1	2
6. With Huntington's chorea, . . . . .	2	4	6	1	1	2	1	1	2	1	4	5	1	1	2	1	1	2	1	1	2
7. With brain tumor, . . . . .	6	3	9	1	1	2	2	1	3	10	2	12	2	2	4	2	1	3	1	1	2
8. With other brain or nervous diseases, . . . . .	20	16	36	4	2	6	4	2	6	10	11	21	10	2	12	2	1	3	2	1	3
9. Alcoholic, . . . . .	242	54	296	24	3	27	62	10	72	125	37	162	10	3	13	5	1	6	16	1	17
10. Due to drugs and other exogenous toxins, . . . . .	2	1	3	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
11. With pellagra, . . . . .	10	10	20	3	1	4	14	9	23	32	50	82	5	7	12	3	1	4	1	1	2
12. With other somatic diseases, . . . . .	60	80	140	7	13	20	12	15	27	64	106	170	18	49	67	10	3	13	3	4	7
13. Manic-depressive, . . . . .	113	195	308	7	16	23	12	17	29	16	34	50	1	5	6	1	1	2	2	6	8
14. Involution melancholia, . . . . .	19	55	74	2	2	4	2	12	14	16	34	50	1	1	2	1	1	2	1	1	2
15. Dementia precox, . . . . .	481	505	986	33	38	71	79	66	145	279	304	583	54	69	123	13	10	23	23	18	41
16. Paranoia and paranoic conditions, . . . . .	24	48	72	2	2	4	2	2	4	19	37	56	1	3	4	1	1	2	1	1	2
17. Psychoneuroses, . . . . .	29	58	87	5	5	10	8	12	20	21	33	54	4	9	13	1	2	3	1	1	2
18. With mental deficiency, . . . . .	46	62	108	14	25	39	13	18	31	18	19	37	1	3	4	1	1	2	1	1	2
19. With psychopathic inferiority, . . . . .	17	9	26	1	2	3	5	7	12	11	4	15	2	2	4	1	1	2	1	1	2
20. Epileptic, . . . . .	40	36	76	6	1	7	5	7	12	22	24	46	3	3	6	3	1	4	3	1	4
21. Undiagnosed, . . . . .	133	123	256	13	5	18	24	15	39	72	75	147	8	15	23	2	2	4	14	11	25
22. Not insane, . . . . .	230	193	423	15	8	23	28	15	43	156	155	311	17	6	23	11	2	13	3	7	10
Totals, . . . . .	2,017	1,799	3,816	151	162	313	351	250	601	1,170	1,078	2,248	172	207	379	74	23	97	99	79	178

TABLE 19. --- *Environment of First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.*

	TOTAL.			URBAN.			RURAL.			UNASCERTAINED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Traumatic, . . . . .	15	2	17	13	2	15	2	-	2	1	-	1
2. Senile, . . . . .	105	190	295	79	145	224	25	45	70	1	-	1
3. With cerebral arteriosclerosis, . . . . .	198	97	295	158	79	237	40	18	58	-	-	-
4. General paralysis, . . . . .	208	44	252	188	40	228	19	4	23	1	-	1
5. With cerebral syphilis, . . . . .	27	14	41	25	11	36	2	3	5	-	-	-
6. With Huntington's chorea, . . . . .	2	4	6	1	4	5	1	-	1	-	-	-
7. With brain tumor, . . . . .	6	3	9	6	2	8	-	1	1	-	-	-
8. With other brain or nervous diseases, . . . . .	20	16	36	15	14	29	5	2	7	-	-	-
9. Alcoholic, . . . . .	242	54	296	205	48	253	36	6	42	1	-	1
10. Due to drugs and other exogenous toxins, . . . . .	2	1	3	2	1	3	-	-	-	-	-	-
11. With pellagra, . . . . .	-	10	10	-	8	8	-	2	2	-	-	-
12. With other somatic diseases, . . . . .	60	80	140	46	60	106	14	19	33	-	-	-
13. Manic-depressive, . . . . .	113	195	308	96	164	260	17	31	48	1	-	1
14. Involution melancholia, . . . . .	19	55	74	16	44	60	3	11	14	-	-	-
15. Dementia precox, . . . . .	481	505	986	410	435	845	70	70	140	1	-	1
16. Paranoia and paranoid conditions, . . . . .	24	48	72	23	45	68	1	3	4	-	-	-
17. Psychoneuroses, . . . . .	29	58	87	26	57	83	3	1	4	-	-	-
18. With mental deficiency, . . . . .	46	62	108	31	49	80	15	13	28	-	-	-
19. With psychopathic inferiority, . . . . .	17	9	26	16	8	24	1	1	2	-	-	-
20. Epileptic, . . . . .	133	36	169	127	33	160	6	3	9	-	-	-
21. Undiagnosed, . . . . .	230	193	423	209	186	395	21	7	28	-	-	-
22. Not insane, . . . . .												
Totals, . . . . .	2,017	1,799	3,816	1,726	1,549	3,275	287	249	536	4	1	5

TABLE 20. — *Economic Condition of First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.*

	TOTAL.			DEPENDENT.			MARGINAL.			COMFORTABLE.			UNASCERTAINED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Traumatic, . . . . .	15	2	17	1	—	1	10	2	12	4	—	4	—	—	—
2. Senile, . . . . .	105	190	295	39	70	109	48	98	146	16	22	38	2	—	2
3. With cerebral arteriosclerosis, . . . . .	198	97	295	40	29	69	118	49	167	40	19	59	10	—	10
4. General paralysis, . . . . .	208	44	252	15	9	24	145	30	175	38	5	43	2	—	2
5. With cerebral syphilis, . . . . .	27	14	41	—	2	2	22	10	32	3	2	5	—	—	—
6. With Huntington's chorea, . . . . .	2	4	6	—	—	—	1	4	5	1	—	1	—	—	—
7. With brain tumor, . . . . .	6	3	9	1	—	1	4	2	6	—	1	1	—	—	—
8. With other brain or nervous diseases, . . . . .	20	16	36	10	2	12	15	13	28	2	1	3	3	—	3
9. Alcoholic, . . . . .	242	54	296	10	5	15	183	44	227	40	5	45	9	—	9
10. Due to drugs and other exogenous toxins, . . . . .	2	1	3	—	—	—	1	—	1	1	1	2	—	—	—
11. With pellagra, . . . . .	—	10	10	—	1	1	—	6	6	—	3	3	—	—	—
12. With other somatic diseases, . . . . .	60	80	140	10	15	25	34	53	87	14	12	26	2	—	2
13. Manic-depressive, . . . . .	113	195	308	3	11	14	74	128	202	32	55	87	4	1	5
14. Involution melancholia, . . . . .	19	55	74	—	1	1	10	43	53	8	11	19	1	—	1
15. Dementia præcox, . . . . .	481	505	986	38	46	84	355	388	743	69	71	140	19	—	19
16. Paranoia and paranoic conditions, . . . . .	24	48	72	—	7	7	17	25	42	5	16	21	2	—	2
17. Psychoneuroses, . . . . .	29	58	87	—	8	8	23	46	69	6	4	10	—	—	—
18. With mental deficiency, . . . . .	46	62	108	17	33	50	27	26	53	2	3	5	—	—	—
19. With psychopathic inferiority, . . . . .	17	9	26	5	5	10	10	10	13	2	1	3	2	—	2
20. Epileptic, . . . . .	40	36	76	4	6	10	32	25	57	2	5	7	2	—	2
21. Undiagnosed, . . . . .	133	123	256	5	4	9	100	105	205	22	14	36	6	—	6
22. Not insane, . . . . .	230	193	423	19	22	41	176	158	334	25	13	38	10	—	10
Totals, . . . . .	2,017	1,799	3,816	207	276	483	1,405	1,258	2,663	332	264	596	73	1	74



TABLE 21. — Use of Alcohol by First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.

	TOTAL.			ABSTINENT.			TEMPERATE.			INTERMEDIATE.			UNASCERTAINED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Traumatic,	15	2	17	5	2	7	6	—	6	3	—	3	1	—	1
2. Senile,	105	190	295	31	142	173	41	21	62	17	—	24	16	20	36
3. With cerebral arteriosclerosis,	198	97	295	56	79	135	92	12	104	33	3	36	17	3	20
4. General paralysis,	208	44	252	56	23	79	91	15	106	50	5	55	11	1	12
5. With cerebral syphilis,	27	14	41	7	6	13	12	2	14	8	5	13	—	1	1
6. With Huntington's chorea,	2	4	6	1	4	5	1	—	1	—	—	—	—	—	—
7. With brain tumor,	6	3	9	1	3	4	4	—	4	1	—	1	—	—	—
8. With other brain or nervous diseases,	20	16	36	5	11	16	11	2	13	3	1	4	1	2	3
9. Alcoholic,	242	54	296	—	—	—	—	—	—	242	54	296	—	—	—
10. Due to drugs and other exogenous toxins,	2	1	3	1	1	2	—	—	—	1	—	1	—	—	—
11. With pellagra,	—	10	10	—	7	7	—	2	2	—	—	—	—	—	—
12. With other somatic diseases,	60	80	140	19	66	85	26	7	33	12	—	12	3	7	10
13. Manic-depressive,	113	195	308	50	163	213	45	19	64	17	3	20	1	10	11
14. Involution melancholia,	19	55	74	8	43	51	7	9	16	1	—	1	3	3	6
15. Dementia precox,	481	505	986	194	422	616	173	45	218	86	4	90	28	34	62
16. Paranoia and paranoic conditions,	24	48	72	11	37	48	9	4	13	4	3	7	—	4	4
17. Psychoneuroses,	29	58	87	14	54	68	14	3	17	4	1	1	—	1	1
18. With mental deficiency,	46	62	108	19	53	72	14	4	18	11	2	13	2	3	5
19. With psychopathic inferiority,	17	9	26	4	8	12	7	—	7	6	—	6	—	1	—
20. Epileptic,	40	36	76	22	34	56	8	2	10	10	—	10	—	—	—
21. Undiagnosed,	133	123	256	52	91	143	49	20	66	22	5	27	10	10	20
22. Not insane,	230	193	423	112	141	253	58	28	86	51	18	69	9	6	15
Totals,	2,017	1,799	3,816	668	1,390	2,058	668	192	860	579	110	689	102	107	209

TABLE 22. — *Marital Condition of First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.*

	TOTAL.			SINGLE.			MARRIED.			WIDOWED.			SEPARATED.			DIVORCED.			UNASCERTAINED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Traumatic,	15	2	17	9	1	7	7	—	7	2	—	2	—	—	—	—	—	—	—	—	—
2. Senile,	105	190	295	11	37	48	42	35	77	48	115	163	2	—	—	—	—	—	—	—	—
3. With cerebral arteriosclerosis,	198	97	295	26	21	47	109	28	137	58	47	105	—	—	—	—	—	—	—	—	—
4. General paralysis,	208	44	252	53	15	68	134	16	150	14	12	26	3	—	—	—	—	—	—	—	—
5. With cerebral syphilis,	27	14	41	9	2	11	17	9	26	1	3	4	—	—	—	—	—	—	—	—	—
6. With Huntington's chorea,	2	4	6	1	—	1	1	3	4	—	—	—	—	—	—	—	—	—	—	—	—
7. With brain tumor,	6	3	9	1	1	2	3	1	4	1	1	2	—	—	—	—	—	—	—	—	—
8. With other brain or nervous diseases,	20	16	36	3	2	5	15	10	25	1	4	5	2	—	—	—	—	—	—	—	—
9. Alcoholic,	242	54	296	113	6	119	102	34	136	18	13	31	—	—	—	—	—	—	—	—	—
10. Due to drugs and other exogenous toxins,	2	1	3	—	1	1	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—
11. With pellagra,	—	10	10	—	2	2	—	5	5	—	—	—	—	—	—	—	—	—	—	—	—
12. With other somatic diseases,	60	80	140	23	21	44	30	40	70	7	17	24	—	—	—	—	—	—	—	—	—
13. Manic-depressive,	113	195	308	43	58	101	58	118	176	6	18	24	3	—	—	—	—	—	—	—	—
14. Involution melancholia,	19	55	74	4	14	18	10	33	43	4	8	12	—	—	—	—	—	—	—	—	—
15. Dementia præcox,	481	503	986	370	262	632	89	198	287	12	28	40	—	—	—	—	—	—	—	—	—
16. Paranoia and paranoic conditions,	24	48	72	4	16	20	17	25	42	2	7	9	—	—	—	—	—	—	—	—	—
17. Psychoneuroses,	29	58	87	17	25	42	11	26	37	—	5	5	—	—	—	—	—	—	—	—	—
18. With mental deficiency,	46	62	108	41	45	86	4	12	16	1	4	5	—	—	—	—	—	—	—	—	—
19. With psychopathic inferiority,	17	9	26	10	7	17	3	2	5	—	—	—	—	—	—	—	—	—	—	—	—
20. Epileptic,	40	36	76	29	18	47	10	15	25	—	—	—	—	—	—	—	—	—	—	—	—
21. Undiagnosed,	133	123	256	50	43	93	68	63	131	9	13	22	—	—	—	—	—	—	—	—	—
22. Not insane,	230	193	423	136	116	252	71	61	132	10	12	22	2	—	—	—	—	—	—	—	—
Totals, . . .	2,017	1,799	3,816	950	713	1,663	803	734	1,537	195	314	509	16	7	23	29	19	48	24	12	36

TABLE 23. — *Psychoses of Readmissions at Public Institutions for the Insane and McLean Hospital.*

PSYCHOSES.	SUBHEADINGS.			MAIN PSYCHOSES.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Traumatic, . . . . .	-	-	-	-	-	-
2. Senile, total, . . . . .	8	18	26			
(a) Simple deterioration, . . . . .	4	3	7			
(b) Presbyophrenic type, . . . . .	1	8	9			
(c) Delirious and confused states, . . . . .	-	1	1			
(d) Depressed and agitated states in addition to deterioration, . . . . .	-	2	2			
(e) Paranoid states in addition to deterioration, . . . . .	2	4	6			
(f) Presenile type, . . . . .	1	-	1			
3. With cerebral arteriosclerosis, . . . . .	23	18	41			
4. General paralysis, . . . . .	88	17	105			
5. With cerebral syphilis, . . . . .	11	2	13			
6. With Huntington's chorea, . . . . .	-	-	-			
7. With brain tumor, . . . . .	1	-	1			
8. With other brain or nervous diseases, total, . . . . .	6	2	8			
Cerebral embolism, . . . . .	-	-	-			
Paralysis agitans, . . . . .	-	-	-			
Tubercular or other forms of meningitis, . . . . .	1	-	1			
Multiple sclerosis, . . . . .	1	-	1			
Tabes, . . . . .	3	-	3			
Acute chorea, . . . . .	-	-	-			
Other conditions, . . . . .	1	2	3			
9. Alcoholic, total, . . . . .	75	21	96			
(a) Pathological intoxication, . . . . .	1	1	2			
(b) Delirium tremens, . . . . .	9	4	13			
(c) Acute hallucinosis, . . . . .	26	2	28			
(d) Acute paranoid type, . . . . .	4	1	5			
(e) Korsakow's psychosis, . . . . .	2	5	7			
(f) Chronic hallucinosis, . . . . .	10	1	11			
(g) Chronic paranoid type, . . . . .	12	4	16			
(h) Alcoholic deterioration, . . . . .	10	3	13			
(i) Other types, acute or chronic, . . . . .	1	-	1			
10. Due to drugs and other exogenous toxins, total, . . . . .	3	3	6			
(a) Morphine, cocaine, bromides, chloral, etc., alone or combined, . . . . .	2	2	4			
(b) Metals, as lead, arsenic, etc., . . . . .	-	-	-			
(c) Gases, . . . . .	1	1	2			
(d) Other exogenous toxins, . . . . .	-	-	-			
11. With pellagra, . . . . .	-	-	-			
12. With other somatic diseases, total, . . . . .	5	12	17			
(a) Delirium with infectious diseases, . . . . .	1	3	4			
(b) Post-infectious psychoses, . . . . .	2	4	6			
(c) Exhaustion delirium, . . . . .	1	2	3			
(d) Delirium of unknown origin, . . . . .	-	-	-			
(e) Diseases of the ductless glands, . . . . .	-	1	1			
(f) Cardiorenal diseases, . . . . .	1	-	1			
(g) Other diseases or conditions, . . . . .	-	2	2			
13. Manic-depressive, total, . . . . .	144	207	351			
(a) Manic type, . . . . .	73	93	166			
(b) Depressive type, . . . . .	64	100	164			
(c) Stupor, . . . . .	-	-	-			
(d) Mixed type, . . . . .	7	12	19			
(e) Circular type, . . . . .	-	2	2			
14. Involution melancholia, . . . . .	11	28	39			
15. Dementia præcox, total, . . . . .	299	262	561			
(a) Paranoid type, . . . . .	134	95	229			
(b) Katatonic type, . . . . .	48	51	99			
(c) Hebeephrenic type, . . . . .	100	101	201			
(d) Simple type, . . . . .	15	15	30			
(e) Unclassified, . . . . .	2	-	2			
16. Paranoia and paranoic conditions, . . . . .	10	28	38			

TABLE 23. — *Psychoses of Readmissions at Public Institutions for the Insane and McLean Hospital* — Concluded.

PSYCHOSES.	SUBHEADINGS.			MAIN PSYCHOSES.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
17. Psychoneuroses, total, . . . . .	.	.	.	12	15	27
(a) Hysterical type, . . . . .	7	4	4			
(b) Psychasthenic type, . . . . .	7	8	15			
(c) Neurasthenic type, . . . . .	2	2	4			
(d) Anxiety neuroses, . . . . .	3	1	4			
18. With mental deficiency, . . . . .	.	.	.	23	19	42
19. With constitutional psychopathic inferiority, . . . . .	.	.	.	10	6	16
20. Epileptic, total, . . . . .	.	.	.	24	11	35
(a) Deterioration, . . . . .	14	6	20			
(b) Clouded states, . . . . .	9	4	13			
(c) Other conditions, . . . . .	1	1	2			
21. Undiagnosed, . . . . .	.	.	.	40	25	65
22. Not insane, total, . . . . .	.	.	.	41	28	69
(a) Epilepsy without psychosis, . . . . .	3	3	6			
(b) Alcoholism without psychosis, . . . . .	2	1	3			
(c) Drug addiction without psychosis, . . . . .	—	—	—			
(d) Constitutional psychopathic inferiority without psychosis, . . . . .	15	6	21			
(e) Mental deficiency without psychosis, . . . . .	9	13	22			
(f) Others, . . . . .	12	5	17			
Totals, . . . . .	.	.	.	834	722	1,556



TABLE 24. — Discharges of Patients, classified with Reference to Principal Psychoses and Condition on Discharge, at Public Institutions for the Insane and McLean Hospital.

	TOTAL.			RECOVERED.			IMPROVED.			UNIMPROVED.			NOT INSANE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Traumatic, . . . . .	10	1	11	2	1	3	5	—	5	1	—	1	2	—	2
2. Senile, . . . . .	25	36	61	—	—	—	11	11	22	14	24	38	—	1	1
3. With cerebral arteriosclerosis, . . . . .	51	38	89	—	2	2	20	15	35	31	21	52	—	—	—
4. General paralysis, . . . . .	117	24	141	—	—	—	29	9	38	88	14	102	—	1	1
5. With cerebral syphilis, . . . . .	21	12	33	—	—	—	5	4	9	16	8	24	—	—	—
6. With Huntington's chorea, . . . . .	—	2	2	—	—	—	—	1	1	—	1	1	—	—	—
7. With brain tumor, . . . . .	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—
8. With other brain or nervous diseases, . . . . .	13	7	20	—	—	—	4	1	5	8	6	14	1	—	1
9. Alcoholic, . . . . .	303	55	358	149	25	174	112	16	128	41	11	52	1	3	4
10. Due to drugs and other exogenous toxins, . . . . .	4	12	16	3	6	9	1	5	6	—	1	1	—	—	—
11. With pellagra, . . . . .	1	3	4	—	1	1	1	2	3	—	—	—	—	—	—
12. With other somatic diseases, . . . . .	29	43	72	17	18	35	8	17	25	4	8	12	—	—	—
13. Manic-depressive, . . . . .	205	303	508	68	138	206	88	104	192	49	61	110	—	—	—
14. Involution melancholia, . . . . .	11	54	65	1	14	15	2	16	18	8	24	32	—	—	—
15. Dementia præcox, . . . . .	489	432	921	8	14	22	211	203	414	270	215	485	—	—	—
16. Paranoia and paranoic conditions, . . . . .	32	49	81	1	—	1	11	20	31	20	29	49	—	—	—
17. Psychoneuroses, . . . . .	37	74	111	4	9	13	7	29	36	12	5	17	14	31	45
18. With mental deficiency, . . . . .	49	33	82	1	—	1	32	21	53	16	12	28	—	—	—
19. With psychopathic inferiority, . . . . .	13	4	17	1	—	1	6	3	9	6	1	7	—	—	—
20. Epileptic, . . . . .	52	40	92	4	3	7	17	12	29	29	23	52	2	2	4
21. Undiagnosed, . . . . .	114	103	217	5	5	10	24	22	46	84	71	155	1	5	6
22. Not insane, . . . . .	260	218	478	5	3	8	13	5	18	5	4	9	237	206	443
Totals, . . . . .	1,837	1,543	3,380	269	239	508	607	516	1,123	703	539	1,242	258	249	507



Exhaustion,	.	.	.	.	.	3	1	4	-	-	-	-	-	-	-	-	-	-
Exhaustion following delirium tremens,	.	.	.	.	.	1	1	1	-	-	-	-	-	-	-	-	-	-
Goiter, exophthalmic,	.	.	.	.	.	1	1	1	-	-	-	-	-	-	-	-	-	-
Influenza,	.	.	.	.	.	35	30	65	1	-	-	-	-	-	-	-	-	-
Influenza and broncho-pneumonia,	.	.	.	.	.	22	7	29	2	1	1	3	2	2	-	-	-	-
Myxodema,	.	.	.	.	.	-	3	8	-	-	-	-	-	-	-	-	-	-
Pellagra,	.	.	.	.	.	-	-	-	-	-	-	-	-	-	-	-	-	-
Peritonitis, general,	.	.	.	.	.	1	-	1	-	-	-	-	-	-	-	-	-	-
Pyemia with multiple abscesses,	.	.	.	.	.	-	1	1	-	-	-	-	-	-	-	-	-	-
Sarcoma, multiple,	.	.	.	.	.	-	1	1	-	-	-	-	-	-	-	-	-	-
Of jaw,	.	.	.	.	.	10	3	13	1	1	1	1	1	1	-	-	-	-
Septicæmia,	.	.	.	.	.	11	1	12	-	-	-	-	-	-	-	-	-	-
Syphilis,	.	.	.	.	.	-	-	-	-	-	-	-	-	-	-	-	-	-
Thrombosis of right femoral vein, with gangrene of right leg,	.	.	.	.	.	-	1	1	-	-	-	-	-	-	-	-	-	-
Toxiemia from furunculosis,	.	.	.	.	.	1	-	1	-	-	-	-	-	-	-	-	-	-
Tubercular meningitis,	.	.	.	.	.	1	-	1	-	-	-	-	-	-	-	-	-	-
Tubercular peritonitis,	.	.	.	.	.	-	1	1	-	-	-	-	-	-	-	-	-	-
Tuberculosis, general,	.	.	.	.	.	-	1	1	-	-	-	-	-	-	-	-	-	-
Miliary, acute,	.	.	.	.	.	2	-	2	-	-	-	-	-	-	-	-	-	-
Of intestines,	.	.	.	.	.	1	-	1	-	-	-	-	-	-	-	-	-	-
Pulmonary,	.	.	.	.	.	120	110	230	2	4	6	3	-	3	4	4	10	19
Pulmonary and intestinal,	.	.	.	.	.	2	2	4	-	-	-	-	-	-	-	-	-	-
Other forms of tuberculosis,	.	.	.	.	.	5	2	7	1	-	-	1	1	-	-	-	-	-
Uremia,	.	.	.	.	.	-	1	1	-	-	-	-	-	-	-	-	-	-
Other general diseases,	.	.	.	.	.	4	5	9	-	1	1	-	-	-	1	-	-	-
<i>Nervous System.</i>																		
Apoplexy (cerebral hemorrhage),	.	.	.	.	.	58	64	122	7	10	17	30	24	54	3	1	4	2
Cerebral hemorrhagic pachymeningitis,	.	.	.	.	.	-	1	1	-	-	-	-	-	-	-	-	-	-
Cerebral neoplasm,	.	.	.	.	.	2	1	3	-	-	-	-	-	-	-	-	-	-
Cerebral thrombosis,	.	.	.	.	.	-	2	2	1	1	1	-	1	1	-	-	-	-
Cerebral tumor,	.	.	.	.	.	5	2	7	-	-	-	-	-	-	-	-	-	-
Cerebrospinal meningitis,	.	.	.	.	.	2	2	4	-	-	-	1	-	1	1	-	-	-
Cerebrospinal syphilis,	.	.	.	.	.	3	2	5	-	-	-	-	-	-	-	-	-	-
Chorea, Huntingdon's,	.	.	.	.	.	-	2	2	-	-	-	-	-	-	-	-	-	-
Diseases of the ears,	.	.	.	.	.	-	1	1	-	-	-	-	-	-	-	-	-	-
Encephalitis,	.	.	.	.	.	-	1	1	-	-	-	-	-	-	-	-	-	-
Epilepsy,	.	.	.	.	.	28	18	46	-	-	-	-	-	-	-	-	-	-
Exhaustion from other mental diseases,	.	.	.	.	.	5	10	15	-	-	-	-	-	-	-	-	-	-
General paralysis of insane,	.	.	.	.	.	132	26	158	-	-	-	-	-	-	-	-	-	-
Locomotor ataxia,	.	.	.	.	.	1	1	2	-	-	-	-	-	-	-	-	-	-
Myelitis,	.	.	.	.	.	-	2	3	-	-	-	-	-	-	-	-	-	-
Other diseases of brain,	.	.	.	.	.	1	2	3	-	-	-	-	-	-	-	-	-	-
Progressive muscular atrophy,	.	.	.	.	.	1	-	1	-	-	-	-	-	-	-	-	-	-





Respiratory System.												
Asthma, . . . . .	1	-	1	-	1	-	1	-	1	-	1	-
Bronchitis, . . . . .	2	-	-	-	-	-	-	-	-	-	-	-
Gangrene of lungs, . . . . .	1	1	-	-	-	-	-	-	-	-	-	-
Other diseases of the respiratory system, . . . . .	3	3	-	-	-	-	-	-	-	-	-	-
Pleurisy, . . . . .	1	-	-	-	-	-	-	-	-	-	-	-
Pneumonia, post operative, . . . . .	2	-	-	-	-	-	-	-	-	-	-	-
Pneumonia, broncho, . . . . .	161	120	16	27	43	33	15	48	18	3	21	15
Pneumonia, broncho and influenza, . . . . .	47	18	4	9	13	3	1	2	2	1	2	1
Pneumonia, lobar, . . . . .	68	74	4	9	13	3	2	5	2	2	4	4
Pneumonia, lobar, . . . . .	1	-	-	-	-	-	-	-	-	-	-	-
Pulmonary embolism, . . . . .	1	-	-	-	-	-	-	-	-	-	-	-
Pulmonary gangrene, . . . . .	1	-	-	-	-	-	-	-	-	-	-	-
Pulmonary œdema, . . . . .	1	-	-	-	-	-	-	-	-	-	-	-
Digestive System.												
Diseases of the stomach:—												
Gastro-enteritis, . . . . .	1	4	-	2	2	-	-	-	-	-	-	-
Ulcer of stomach, . . . . .	1	2	-	-	-	-	1	1	1	-	1	-
Other diseases of the stomach (cancer excepted), . . . . .	-	1	-	-	-	-	-	-	-	-	-	-
Diseases of the intestines:—												
Colitis, acute, . . . . .	-	1	-	-	-	-	-	-	-	-	-	-
Diarrhœa, . . . . .	7	15	1	5	6	1	1	2	1	-	1	-
Enteritis, . . . . .	11	16	2	8	10	-	1	1	-	1	1	-
Enterocolitis, . . . . .	-	2	-	1	1	-	-	-	-	-	-	-
Ileocolitis, . . . . .	1	1	-	1	1	-	-	-	-	-	-	-
Intestinal obstruction, . . . . .	4	3	-	1	1	-	-	-	-	-	-	-
Peritonitis, . . . . .	1	2	-	1	1	-	-	-	-	-	-	-
Strangulated hernia with ulceration and ecchymosis, . . . . .	-	1	-	1	1	-	-	-	-	-	-	-
Toxemia from fecal impaction, . . . . .	1	-	-	-	-	-	-	-	-	-	-	-
Diseases of pancreas:—												
Acute pancreatitis, hemorrhagic, . . . . .	-	1	-	-	-	-	-	-	-	-	-	-
Diseases of liver:—												
Biliary calculi, . . . . .	-	1	-	1	1	-	-	-	-	-	-	-
Cirrhosis of liver, . . . . .	-	1	-	-	-	-	-	-	-	-	-	-
Gummata of liver, . . . . .	1	-	-	-	-	-	-	-	-	-	-	-
Other diseases of digestive system (cancer and tuberculosis excepted), . . . . .	3	9	-	4	4	1	3	4	-	-	-	1
Genito-urinary System.												
Cystitis, purulent with ascending pyelonephrosis, . . . . .	1	-	-	-	-	-	-	-	-	-	-	1
Nephritis, acute, . . . . .	-	4	-	-	-	-	-	-	-	-	-	1
Nephritis, chronic, . . . . .	17	15	2	1	3	4	3	7	2	1	3	3

TABLE 25. — Causes of Death of Patients, classified with Reference to Principal Psychoses, etc. — Continued.

CAUSE OF DEATH.	PSYCHOSES.											
	TOTAL.			SENILE.			WITH CEREBRAL ARTERIO-SCLEROSIS.			ALCOHOLIC.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
<i>Genito-urinary System — Concluded.</i>												
Nephritis, pyelo, . . . . .	1	2	3	1	2	3	1	2	3	1	2	3
Other diseases of bladder, . . . . .	1	2	3	1	2	3	1	2	3	1	2	3
Other diseases of kidney and adnexa, . . . . .	1	2	3	1	2	3	1	2	3	1	2	3
Pyelocystitis, . . . . .	1	2	3	1	2	3	1	2	3	1	2	3
Prostatic hypertrophy with hyponephrosis, . . . . .	1	2	3	1	2	3	1	2	3	1	2	3
Prostatic hypertrophy with massive hemorrhage into bladder, . . . . .	1	2	3	1	2	3	1	2	3	1	2	3
Gangrene, . . . . .	5	2	7	3	1	4	1	1	2	1	1	2
<i>Diseases of the Skin.</i>												
Abdominal hemorrhage (fall), . . . . .	1	1	2	1	1	2	1	1	2	1	1	2
Asphyxia, . . . . .	1	1	2	1	1	2	1	1	2	1	1	2
Asphyxiation, food in bronchi, . . . . .	1	1	2	1	1	2	1	1	2	1	1	2
Burns of body and arteriosclerosis, . . . . .	1	1	2	1	1	2	1	1	2	1	1	2
Choking, . . . . .	1	1	2	1	1	2	1	1	2	1	1	2
Drowning, accidental, . . . . .	1	1	2	1	1	2	1	1	2	1	1	2
Fracture of right femur (neck), . . . . .	1	1	2	1	1	2	1	1	2	1	1	2
Fracture, skull (train accident), . . . . .	1	1	2	1	1	2	1	1	2	1	1	2
Starvation, . . . . .	1	1	2	1	1	2	1	1	2	1	1	2
Strangulation with a piece of suspender, . . . . .	1	1	2	1	1	2	1	1	2	1	1	2
Sudden death due to natural causes, . . . . .	1	1	2	1	1	2	1	1	2	1	1	2
Suicide, . . . . .	7	6	13	1	1	2	1	1	2	1	1	2
Totals, . . . . .	1,079	873	1,952	102	162	264	170	94	264	67	70	137













TABLE 26. — Age of Patients at Time of Death, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.

	TOTAL.			YEARS.																				
	Males.	Females.	Totals.	UNDER 15.			15-20.			20-25.			25-30.			30-35.			35-40.			40-45.		
				Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.			
1. Traumatic, . . . . .	4	-	4	-	-	-	-	-	-	1	-	1	1	-	1	-	-	-	1	-	-	1	-	1
2. Senile, . . . . .	102	162	264	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3. With cerebral arteriosclerosis, . . . . .	170	94	264	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4. General paralysis, . . . . .	195	41	236	-	-	-	1	-	1	-	-	1	4	1	5	15	1	16	34	4	38	39	14	53
5. With cerebral syphilis, . . . . .	16	8	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6. With Huntingdon's chorea, . . . . .	1	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7. With brain tumor, . . . . .	6	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8. With other brain or nervous diseases, . . . . .	13	11	24	-	-	-	-	-	-	1	-	1	1	1	2	1	1	2	2	4	3	5	4	2
9. Alcoholic, . . . . .	67	23	90	-	-	-	-	-	-	-	-	-	1	1	2	1	1	2	4	4	4	4	2	6
10. Due to drugs and other exogenous toxins, . . . . .	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11. With pellagra, . . . . .	-	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12. With other somatic diseases, . . . . .	27	37	64	-	-	-	1	-	1	2	4	6	2	3	5	-	-	4	2	5	7	2	5	7
13. Manic-depressive, . . . . .	37	70	107	-	-	-	1	-	1	1	1	2	1	2	3	2	7	9	-	4	4	1	6	7
14. Involution melancholia, . . . . .	13	29	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	4
15. Dementia præcox, . . . . .	279	277	556	-	-	-	4	4	8	27	12	39	31	24	55	53	38	91	41	31	72	35	31	66
16. Paranoia and paranoic conditions, . . . . .	7	7	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2
17. Psychoneuroses, . . . . .	-	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3
18. With mental deficiency, . . . . .	27	28	55	-	-	-	5	2	7	2	2	4	3	4	7	3	4	7	5	5	10	2	3	5
19. With psychopathic inferiority, . . . . .	3	1	4	-	-	-	-	-	-	1	-	1	3	4	-	-	-	-	-	-	-	-	2	2
20. Epileptic, . . . . .	68	47	115	-	-	-	15	6	21	15	6	21	9	6	15	11	5	16	8	6	14	4	4	8
21. Undiagnosed, . . . . .	22	14	36	-	-	-	1	3	4	1	1	2	1	1	2	2	3	3	2	2	2	2	2	3
22. Not insane, . . . . .	22	5	27	-	-	-	1	-	1	5	-	5	3	-	4	3	2	3	4	-	5	-	-	1
Totals, . . . . .	1,079	873	1,952	1	5	6	16	9	25	57	26	83	57	42	99	93	63	156	105	61	166	94	75	169





TABLE 27. — Total Duration of Hospital Life of Patients dying in Public Institutions for the Insane and McLean Hospital.

	TOTAL.			MONTHS.												YEARS.								
				LESS THAN 1.			1-3.			4-7.			8-12.			1-2.			3-4.			5-10.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Traumatic,	4	-	4	1	-	1	15	27	42	-	17	16	36	52	1	6	9	15	1	9	14	23		
2. Senile,	102	162	264	22	47	69	37	74	111	32	8	28	18	46	-	2	1	3	-	1	9	11	20	
3. With cerebral arteriosclerosis,	170	94	264	59	15	74	37	15	52	15	9	24	17	35	-	1	1	2	1	6	9	15	20	
4. General paralysis,	195	41	236	23	3	26	36	9	45	6	16	65	10	75	-	13	2	15	-	8	5	13		
5. With cerebral syphilis,	16	8	24	6	1	7	-	3	3	3	-	6	4	10	-	1	1	2	-	-	-	-	-	
6. With Huntingdon's chorea,	1	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7. With brain tumor,	6	4	10	2	2	4	1	1	2	1	1	2	1	3	-	1	1	2	-	1	1	2	-	
8. With other brain or nervous diseases,	13	11	24	6	4	10	4	2	6	1	2	3	1	4	-	1	2	3	-	1	2	3	-	
9. Alcoholic,	67	23	90	11	1	12	4	1	5	3	1	4	2	1	3	8	6	14	6	2	2	8	16	
10. Due to drugs and other exogenous toxins,	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11. With pellagra,	-	6	6	-	2	2	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12. With other somatic diseases,	27	37	64	16	28	44	7	6	13	2	2	4	1	4	-	1	1	2	-	1	2	3	-	
13. Manic-depressive,	37	70	107	2	11	13	2	9	11	4	8	12	-	4	1	1	1	2	-	2	7	9	-	
14. Involution melancholia,	13	29	42	3	6	9	4	2	6	2	5	7	-	3	5	5	10	2	1	2	3	8	12	
15. Dementia precox,	279	277	556	6	9	15	8	11	19	3	12	12	7	19	45	39	84	33	27	60	68	70	138	
16. Paranoia and paranoic conditions,	7	7	14	-	-	-	3	-	3	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
17. Psychoneuroses,	-	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
18. With mental deficiency,	27	28	55	-	3	3	-	3	3	-	-	1	1	2	-	4	8	3	-	3	2	5	11	
19. With psychopathic inferiority,	3	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	5	
20. Epileptic,	68	47	115	1	1	2	3	-	3	1	1	2	4	2	6	11	4	15	10	7	17	18	15	
21. Undiagnosed,	22	14	36	17	7	24	3	4	7	1	1	2	1	1	-	1	4	1	1	1	1	1	1	
22. Not insane,	22	5	27	2	2	4	1	-	1	2	1	2	1	-	-	3	-	4	3	2	5	7	-	
Totals,	1,079	873	1,952	177	120	297	127	98	225	94	78	172	63	50	113	197	135	332	90	70	160	155	145	300



## DIRECTORY OF INSTITUTIONS.

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### PUBLIC.

#### WORCESTER STATE HOSPITAL (opened 1833): —

Trustees: Miss Georgie A. Bacon, Worcester, chairman; Donald Gordon, Boston, clerk; William J. Delehanty, M.D., Worcester; Edward F. Fletcher, Worcester; John E. White, Worcester; John G. Perman, D.D.S., Worcester; Miss Caroline M. Caswell, Boston.

Regular meeting, second Tuesday of each month.

Acting superintendent, B. Henry Mason, M.D.

Assistant physicians, Donald R. Gilfillan, M.D.; Arthur H. Mountford, M.D.; Robert B. Harriman, M.D.; William J. Vivian, M.D.; Roy C. Jackson, M.D.

Pathologist, Ada F. Harris, M.D.

Steward, Herbert W. Smith.

Visiting days, daily, 10 A.M. to 12 M., and 1 to 4 P.M.

Staff meetings, daily, 8.30 A.M.

Location, Belmont Street, Worcester, one and one-half miles from Union Station (Boston & Albany, New York, New Haven & Hartford and Boston & Maine).

The Summer Street Department is located in the building formerly known as the Worcester State Asylum, on Summer Street, Worcester, about five minutes' walk from the Union Station (Boston & Albany, Boston & Maine and New York, New Haven & Hartford railroads). Correspondence relating to patients should be addressed to the superintendent, Worcester State Hospital, Worcester, Mass. Correspondence intended for the steward or treasurer of the hospital should be addressed to the Worcester State Hospital, Worcester, Mass.

#### TAUNTON STATE HOSPITAL (opened 1854): —

Trustees: Arthur B. Reed, North Abington, chairman; Mrs. Elizabeth C. M. Gifford, Cambridge, secretary; Simeon Borden, Fall River; Charles C. Cain, Jr., Taunton; Julius Berkowitz, New Bedford; Mrs. Margaret C. Smith, Taunton; Philip E. Brady, Attleboro.



TAUNTON STATE HOSPITAL (opened 1854) — *Concluded.*

Regular meeting, second Thursday of each month.

Superintendent, Arthur V. Goss, M.D.

Assistant superintendent, Horace G. Ripley, M.D.

Senior assistant physician, John J. Thompson, M.D.

Senior assistant physician and pathologist, Fannie C. Haines, M.D.

Assistant physicians, Beatrice A. Reed, M.D.; Alma E. Fowler, M.D.; Joseph V. Chatigny, M.D.

Treasurer, Frank W. Boynton.

Steward, Stephen F. Tracy.

Visiting days, every day.

Staff meetings, Monday, Tuesday, Thursday, Friday and Saturday at 8.15 A.M.

Location, Hodges Avenue, Taunton, one mile from railroad station (New York, New Haven & Hartford).

## NORTHAMPTON STATE HOSPITAL (opened 1858): —

Trustees: Luke Corcoran, M.D., Springfield, chairman; Joseph W. Stevens, Greenfield, secretary; Miss Caroline A. Yale, Northampton; Mrs. Emily N. Newton, Holyoke; Harry L. Howard, Hatfield; Edward C. Gere, Northampton; Charles W. King, Chicopee Falls.

Regular meeting, first Thursday of each month.

Superintendent, John A. Houston, M.D.

Assistant physicians: Edward W. Whitney, M.D.; Angela Bober, M.D.; Arthur Nelson Ball, M.D.; Harriet W. Whitney, M.D.

Acting treasurer, John A. Houston, M.D.

Steward, Frank W. Smith.

Visiting days, for relatives or friends, every day except Sunday; for the general public, every day except Sunday.

Staff meetings, daily, except Sundays, at 8.15 A.M.

Location, Prince Street ("Hospital Hill"), Northampton, one and one-half miles from the railroad station, reached by carriage (Massachusetts Central and Connecticut River branches of Boston & Maine; and New Haven and Holyoke, Northampton, branches of the New York, New Haven & Hartford).

## DANVERS STATE HOSPITAL (opened 1878):—

Post office and railroad station, Hathorne (Boston & Maine).

Trustees: S. Herbert Wilkins, Salem, chairman; Samuel Cole, Beverly, secretary; Miss Mary W. Nichols, Danvers; Miss Annie M. Kilham, Beverly; Francis H. Cas-kin, Jr., Danvers; James F. Ingraham, Jr., Peabody; Arthur C. Nason, M.D., Newburyport.

Regular meeting, second Friday of each month.

Superintendent, John B. Macdonald, M.D.

Assistant superintendent, William A. Bryan, M.D.

Assistant physicians, Effie A. Stevenson, M.D.; Curtis E. Smith, M.D.; Louis R. Brown, M.D.; Alfred P. Chronquest, M.D.; Franklin H. Killam, M.D.; Shichi Uyematsu, M.D.

Assistant physician assigned to laboratory, Shichi Uyematsu, M.D.

Treasurer, Spence C. Babbitt.

Steward, Adam D. Smith.

Visiting days, every day.

Staff meeting, daily, at 8 A.M.

Location, Maple and Newbury streets, Danvers, one-quarter mile from railroad station.

## WESTBOROUGH STATE HOSPITAL (opened 1886):—

Trustees: N. Emmons Paine, M.D., West Newton, chairman; Miss Flora L. Mason, Taunton, secretary; Mr. Sewall C. Brackett, Boston; Mr. Thomas F. Dolan, Boston; Mr. Stanley McGarry, Grafton; Charles L. Nichols, M.D., Worcester; Mrs. Emilie Young O'Brien, Brookline.

Regular meeting, second Thursday of each month.

Superintendent, Walter E. Lang, M.D.

Assistant superintendent, Ralph M. Chambers.

Senior assistant physicians, M. J. Shealey, M.D.; Winfred Overholser, M.D.

Assistant physicians, Emma H. Fay, M.D.; Neil A. Dayton, M.D.

Pathologist and director of clinical psychiatry, —.

Steward, Melville L. Stacy.

Treasurer, Carrie P. G. Nelson.

## BOSTON STATE HOSPITAL (opened 1839): —

Trustees: Henry Lefavour, Boston, chairman; Mrs. Katherine G. Devine, South Boston, secretary; Mrs. Helen B. Hopkins, Boston; John A. Kiggen, Hyde Park; William F. Whittemore, Esq., Boston; Hyman B. Swig, D.M.D., Lynn; Charles B. Frothingham, M.D., Lynn.

Regular meeting, third Monday of each month.

Superintendent, James V. May, M.D.

Assistant superintendent, Ermy C. Noble, M.D.

Senior assistant physicians, Mary E. Gill Noble, M.D.; Edmund M. Pease, M.D.; Dora W. Faxon, M.D.; Roderick B. Dexter, M.D.; Florence H. Abbott, M.D.

Assistant physician, William T. Merrill, M.D.

Pathologist, Oscar J. Raeder, M.D.

Dentist, Arthur W. Hicks, D.M.D.

Steward, Arthur E. Gilman.

Acting treasurer, Adeline J. Leary.

Location, East Group, Harvard Street, Dorchester 24, near Blue Hill Avenue; West Group, Walk Hill Street, about one-half mile from railroad station, Post Office, Dorchester Center 24; Psychopathic Department, 74 Fenwood Road, corner Brookline Avenue.

Visiting days, 2 to 4 P.M., daily.

*Psychopathic Department* (opened 1912): —

Post office, 74 Fenwood Road, Boston 17.

Chief executive officer, Arthur P. Noyes, M.D.

Chief medical officer, Lawson G. Lowrey, M.D.

Executive officer, Clifford G. Rounsefell, M.D.

Medical officers, William M. Dobson, M.D.; John H. Travis, M.D.

Assistant executive officer, Goodwin A. Johnson, M.D.

Assistant medical officers, Benjamin L. Elliott, M.D.; Mervyn A. Hirschfeld, M.D.; Newman Cohan, M.D.; Arabella J. Feldkamp, M.D.

Chief medical officer, out-patient service, Percy L. Dodge, M.D.

Assistant medical officer, out-patient service, Charles B. Sullivan, M.D.

Chief psychologist, Ethel L. Cornell, Ph.D.

GRAFTON STATE HOSPITAL, FORMERLY WORCESTER STATE ASYLUM (opened 1877): —

Trustees: Winslow P. Burhoe, Boston, chairman; Margaret A. Cashman, Newburyport, secretary; Ernest L. Anderson, Worcester; Frank B. Hall, Worcester; Francis J. Prescott, Grafton; Charlotte F. D. Ladd, Sturbridge; Enos H. Bigelow, M.D., Framingham.

Acting superintendent and treasurer, H. L. Horsman, M.D.  
Senior assistant physicians, Arthur E. Pattrell, M.D.; George K. Butterfield, M.D.

Assistant physicians, Mary Johnson, M.D.; H. Wilbur Smith, M.D.; Michael J. O'Meara, M.D.; James L. McAuslan, M.D.

Steward, John McRae.

Visiting surgeon, Lemuel F. Woodward, M.D.

Dentists, Adelard J. Harpin, D.M.D.; Burton E. Loring, D.M.D.

Visiting days for relatives or friends, every day; for the general public, every day except Sunday.

The hospital is situated on the main line of the Boston & Albany Railroad, between Worcester and Westborough, about eight miles from Worcester, and can be reached by trolley from Worcester or from the Westborough or North Grafton stations of the Boston & Albany Railroad, or from the Lyman Street crossing of the Boston & Worcester electric cars. Correspondence relating to patients at the Grafton Hospital should be addressed to the superintendent, Grafton State Hospital, North Grafton, Mass.

MEDFIELD STATE HOSPITAL (opened 1896): —

Post office, Harding; railroad station, Medfield Junction (New York, New Haven & Hartford Railroad).

Trustees: Walter Rapp, Brockton, chairman; Albert Evans, M.D., Boston, secretary; Mrs. Carolyn B. Odell, Dorchester; Hon. J. C. J. Flamand, Cambridge; Christian Lantz, Salem; Mrs. Fannie E. Long, Newton Center; George O. Clark, M.D., Boston.

Regular meeting, second Thursday of each month.

Superintendent, Elisha H. Cohoon, M.D.

Assistant superintendent, George E. McPherson, M.D.



MEDFIELD STATE HOSPITAL (opened 1896) — *Concluded.*

Assistant physicians, George A. Troxell, M.D.; Walter Burrier, M.D.; George E. Poor, M.D.; Mary E. Slattery, M.D.; Anna C. Wellington, M.D.

Pathologist, Anna H. Kandib, M.D.

Treasurer, Miss Josephine M. Baker.

Steward, Louis A. Hall.

Visiting days, every day.

Location, Asylum Road, one mile from Medfield Junction railroad station.

## GARDNER STATE COLONY (opened 1902): —

Post office, Gardner; railroad station, East Gardner.

Trustees: Herbert B. Howard, M.D., Reading, chairman; Mrs. Amie H. Coes, Worcester, secretary; Owen A. Hoban, Gardner; George N. Harwood, Barre; Mrs. Alice Miller Spring, Fitchburg; Thomas H. Shea, Fitchburg; Thomas R. P. Gibb, Belmont.

Regular meeting, first Friday occurring on or after the fourth day of each month.

Superintendent and treasurer, Charles E. Thompson, M.D.

Assistant superintendent, Ranson A. Greene, M.D.

Senior assistant physician, Leon E. Duval, M.D.

Assistant physicians, Milman Pease, M.D.; Florence H. Tresilian, M.D.; Penelope M. Nett, M.D.

Visiting days, every day at any hour, including Sundays and holidays.

Location, East Gardner, two minutes' walk from East Gardner railroad station.

## FOXBOROUGH STATE HOSPITAL (opened 1893. Devoted exclusively to the care of the insane since June 1, 1914): —

Trustees: Henry T. Schaefer, Boston, chairman; Thomas J. Scanlan, M.D., Boston, secretary; Isaac Heller, Boston; Maxime Lepine, Lowell; Mrs. Minna R. Mulligan, Natick; Wm. H. Bannon, Foxborough; Claire H. Gurney, Wollaston.

Regular meeting, second Wednesday of each month.

Superintendent and treasurer, Albert C. Thomas, M.D.

FOXBOROUGH STATE HOSPITAL (opened 1893) — *Concluded.*

Senior assistant physicians, James F. McFadden, M.D.;  
Marion E. Kenworthy, M.D.; Ransom H. Sartwell, M.D.;  
John I. Wiseman, M.D.

Assistant physician, Katherine T. Fricka.

Pathologist, Willard Cole Rappleye, M.D.

Visiting days, every day from 9 to 11 A.M. and 2 to 5 P.M.

Staff meetings daily, except Sundays and holidays, at 8.30  
A.M.

Location, one mile north of Foxborough Center.

## MONSON STATE HOSPITAL (opened 1898): —

Post office and railroad station, Palmer (Boston & Albany).

Trustees: George A. Moore, M.D., Palmer, chairman; Mrs.  
Mary B. Townsley, Springfield; William Jameson, Chicopee  
Falls; George D. Storrs, Ware; J. Ubalde Paquin,  
M.D., New Bedford; Mrs. Mary E. Donahue, Melrose  
Highlands; Henry K. Hyde, Ware, secretary.

Regular meeting, first Thursday of each month.

Superintendent, Everett Flood, M.D.

Assistant superintendent, Morgan B. Hodskins, M.D.

Assistant physicians, Donald J. MacLean, M.D.; Buell L.  
Ashmore, M.D.; Harvey M. Watkins, M.D.; Francis M.  
Nesmith, M.D.

Treasurer, Sarah E. Spalding.

Steward, Charles F. Simonds.

Visiting days, every day.

Staff meetings, every day, except Sundays and holidays, at  
11.15 A.M.

Location, one mile from railroad station.

MASSACHUSETTS SCHOOL FOR THE FEEBLE-MINDED AT WALTHAM  
(opened 1848): —

Post office and railroad station, Waverley (Boston & Maine).

Trustees appointed by the Governor: Francis J. Barnes,  
M.D., Cambridge; Edward W. Emerson, M.D., Concord;  
Prof. Thomas N. Carver, Cambridge; Frederick H. Nash,  
treasurer, Auburndale; Frank H. Stewart, Newton; Miss  
Lucia L. Jaquith, Worcester.

MASSACHUSETTS SCHOOL FOR THE FEEBLE-MINDED AT WALTHAM  
(opened 1848) — *Concluded.*

Trustees appointed by the corporation: Frank G. Wheatley, M.D., North Abington, president; Charles Francis Adams, 2d, Concord, vice-president; Charles E. Ware, Fitchburg, secretary; Roger S. Warner, Boston; Francis H. Dewey, Worcester; H. C. Bumpus, M.D., Waban.

Quarterly meeting, second Thursday of October, January, April and July.

Superintendent, Walter E. Fernald, M.D.

Assistant physicians, Anna M. Wallace, M.D.; Edith E. Woodill, M.D.; L. Maude Warren, M.D.; C. Stanley Raymond, M.D.

Treasurer, Nema T. Watkins.

Visiting days, for the parents or friends of the patients, Wednesday, Thursday and Saturday afternoons, and the first Sunday of each month; for the general public, every day, except Sunday.

Staff meetings, daily, at 9 A.M.

Location, near Clematis Brook station (Fitchburg Division, Boston & Maine); about one mile from Waverley station (Fitchburg Division and Southern Division, Boston & Maine).

WRENTHAM STATE SCHOOL (opened 1907): —

Post office and railroad station, Wrentham.

Trustees: Albert L. Harwood, Newton, chairman; Ellerton James, secretary, Nahant; Patrick J. Lynch, Beverly; George W. Gay, M.D., Newton; Mrs. Mary Stewart Scott, Brookline; Herbert C. Parsons, Newton; Miss Sarah Lawrence, Boston.

Regular meeting, second Thursday of each month.

Superintendent, George L. Wallace, M.D.

Treasurer, Miss Sara M. Clayland.

Assistant superintendent, Franklin H. Perkins, M.D.

Senior assistant physicians, Mildred A. Libby, M.D.; Charles E. Roderick, M.D.; Alice M. Patterson, M.D.

Visiting allowed every day.

Location, Emerald Street, Wrentham, one mile from railroad station (New York, New Haven & Hartford Railroad).

## MENTAL WARDS, STATE INFIRMARY (opened 1866): —

Post office, Tewksbury; railroad stations, Baldwin (Western Division, Boston & Maine), Tewksbury Junction and Salem Junction (Southern Division, Boston & Maine).

Trustees: Leonard Huntress, M.D., Lowell, chairman; Mrs. Nellie E. Talbot, Brookline, secretary; Galen L. Stone, Brookline; Francis W. Anthony, M.D., Haverhill; Dennis D. Sullivan, Middleborough; Mrs. Mary E. Cogan, Stoneham; Walter F. Dearborn, M.D., Cambridge.

Regular meeting usually during last week of month.

Superintendent, John H. Nichols, M.D.

Assistant superintendent and physician, George A. Peirce, M.D.

Assistant physicians, Sherman Perry, M.D.; William T. Hanson, M.D.; Anna E. Barker, M.D.; Willard L. Quennell, M.D.; Ernest A. Dyer, M.D.; Edna N. Sylvester-Kane, M.D.

Bacteriologist, Edward J. O'Donoghue, M.D.

Dentist, Frederick E. Twitchell, D.M.D.

Eye, ear, nose and throat specialist, Thomas H. Odeneal, M.D.

Visiting days, every day from 10 A.M. to 4 P.M.

Staff meetings, daily, at 8 A.M.

Location, about one-half mile from railroad and from electric cars. Coach from infirmary meets most of the trains.

## BRIDGEWATER STATE HOSPITAL (opened 1886, 1895): —

Post office, State Farm; railroad station, Titicut (New York, New Haven & Hartford).

Supervision of Department of Correction, Sanford Bates, Commissioner.

Medical director, Frank H. Carlisle, M.D.

Assistant physicians, Lonnie O. Farrar, M.D.; Wilmarth Y. Seymour, M.D.; George A. Gaunt, M.D.

Visiting days, for relatives or friends of patients, every day; for the general public, every day, with the exception of Sundays and holidays.

Staff meetings, daily, at 10 A.M.

Location, one-quarter mile from railroad station.



THE HOSPITAL COTTAGES FOR CHILDREN, BALDWINVILLE (opened 1882): —

President, Herbert S. Morley, Baldwinville; clerk, Robert N. Wallis, Fitchburg.

Trustees appointed by the Governor: George B. Dewson, Cohasset; J. K. Dexter, Springfield; Arthur Lowe, Fitchburg; Herbert Morley, Baldwinville; Miss Edith H. Sears, Boston.

Trustees appointed by the corporation: Gilman Waite, Baldwinville; Mrs. Edward L. Greene, Fitchburg; Rev. J. S. Lemon, Gardner; Mrs. Winslow S. Lincoln, Worcester; Frederick P. Stone, Otter River; Mrs. George Heywood, Brookline; Frederic A. Turner, Jr., Boston; Mrs. Arthur Smith, Leicester; S. E. Greenwood, M.D., Templeton; G. W. Mackintire, Worcester; H. W. Page, M.D., Worcester; John G. Henry, M.D., Winchendon; Mrs. J. M. Lasell, Whitinsville; Mrs. Paul M. Hubbard, Boston; Mrs. Phillip Weston, Pittsfield; George L. Clark, Worcester.

Quarterly meeting, third Wednesday of January, April, July and October.

Superintendent, Harold C. Arey, M.D.

Assistant physician, Caroline A. Osborne, M.D., Ph.D.

Treasurer, U. Waldo Cutler.

Visiting days, every day except Sundays.

Location, Hospital Street, one mile from railroad station (Ware River branch, Boston & Albany, and Boston & Maine).

## PRIVATE.

FOR INSANE EPILEPTICS AND PERSONS ADDICTED TO THE INTEMPERATE USE OF NARCOTICS OR STIMULANTS.

McLEAN HOSPITAL (opened 1818):—

Department of Massachusetts General Hospital Corporation.

Post office and railroad station, Waverley (Boston & Maine).

President, Henry P. Walcott, M.D., Boston.

Treasurer, Charles H. W. Foster, Needham.

Secretary, Francis C. Gray, Boston.

Trustees appointed by the Governor: Thomas B. Gannett, Boston; Joseph H. O'Neil, Boston; Mrs. Nathaniel Thayer, Boston; Sewall H. Fessenden, Boston.

Trustees appointed by the corporation: George Wigglesworth, Boston; William Endicott, Boston; George T. Tuttle, M.D., Boston; John R. Macomber, Boston; Robert Homans, Boston; C. H. W. Foster, Needham; Nathaniel T. Kidder, Boston; John Lowell, Boston.

Regular meeting, usually at the office of the treasurer, 50 State Street, Boston, on Fridays at intervals of two weeks, beginning sixteen days after the first Wednesday in February.

Superintendent, Frederic H. Packard, M.D.

First assistant physician, Theodore A. Hoch, M.D.

Second assistant physician, Ray L. Whitney, M.D.

Clinical assistant and pathologist, —.

Assistant physician, Clarence M. Kelley, M.D.

Chemist, Otto Folin, Ph.D.

Assistant chemist, —.

Assistant in pathological psychology, F. Lyman Wells, Ph.D.

Visiting days, week days.

Staff meetings, regularly, Tuesdays, at 8.30 A.M.; irregularly, on other days, at the same hour.

Location, Pleasant Street, one-third mile from railroad station.

BOURNEWOOD, George H. Torney, M.D., South Street, Brookline. Railroad station, Bellevue (Dedham Division, New York, New Haven & Hartford). Fifteen minutes' walk. Carriage by previous arrangement.

CHANNING SANITARIUM, Walter Channing, M.D., 701 Chestnut Hill Avenue, Brookline. Railroad station, Reservoir (Boston & Albany). Carriage. Or Chestnut Hill street car to Chestnut Hill Avenue; also at Wellesley Avenue, Wellesley.

HERBERT HALL HOSPITAL, Walter C. Haviland, M.D., 223 Salisbury Street, Worcester. Salisbury Street electric car from City Hall Square.

WISWALL SANITARIUM, Harry O. Spalding, M.D., Washington Street, Wellesley, also at Cartwright Road, Needham.

SHERWOOD, J. F. Edgerly, M.D., Lincoln. About two miles from railroad station.

HIGHLAND HALL, Samuel L. Eaton, M.D., 340 Lake Avenue, Newton Highlands.

DR. REEVES' NERVINE, Harriet E. Reeves, M.D., 283 Vinton Street, Melrose Highlands.

ARLINGTON HEALTH RESORT, Arthur H. Ring, M.D., Arlington Heights. Carriage. Also at Billerica.

PRIVATE HOSPITAL FOR MENTAL DISEASES, Edward Mellus, M.D., 419 Waverley Avenue, Newton. Carriage. Or Commonwealth Avenue car to Grant Avenue.

GLENSIDE, Mabel D. Ordway, M.D., 6 Parley Vale, Jamaica Plain.

KNOLLWOOD, Earle E. Bessey, M.D., corner Beacon Street and Waban Avenue, Waban (Boston & Albany).

BELLEVUE SANITARIUM, Mary W. L. Johnson, M.D., 158 Walcott Road, Brookline.

FOR PERSONS ADDICTED TO THE INTEMPERATE USE OF NARCOTICS  
OR STIMULANTS.

FISK HOSPITAL, 5 Sparhawk Street, Brighton. Medical director,  
R. W. Sprague, M.D.; manager, Chas. D. B. Fisk.

PRIVATE HOSPITAL, Frederick L. Taylor, M.D., 45 Center  
Street, Roxbury.

WALTER BAKER SANITARIUM, William B. Keeler, M.D., 524  
Warren Street, Roxbury.

WASHINGTONIAN HOME, Hugh Barr Gray, M.D., 41 Waltham  
Street, Boston.

DOUGLAS SANATORIUM, Charles J. Douglas, M.D., 321 Center  
Street, Dorchester.

DR. VROOMAN'S SANITARIUM, Earle M. Vrooman, M.D., 93  
Park Avenue, North Adams.

MASSACHUSETTS HOME AND HOSPITAL, Nathaniel K. Wood,  
M.D., corner Smyrna and Binney streets, Boston.

FOR FEEBLE-MINDED.

ELM HILL PRIVATE SCHOOL AND HOME FOR THE FEEBLE-MINDED,  
George A. Brown, M.D., Barre (Central Massachusetts  
Branch, Boston & Maine).

TERRACE HOME SCHOOL, Mrs. Frances Herrick Doyle, Manager,  
Amherst (Central Massachusetts Branch, Boston &  
Maine). Carriage.

PRIVATE SCHOOL, Miss Elizabeth C. Moulton, 80 Hammond  
Street, Chestnut Hill, Newton.

STANDISH MANOR, Miss Harriet G. Russell, Halifax.

HILLBROW SCHOOL, Miss Alice Shovelton, 16 Summit Street,  
Newton.

PRIVATE SCHOOL, Miss Caroline J. Schofield, Edgartown.



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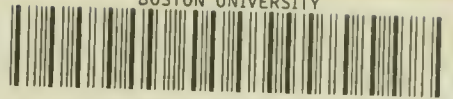








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